



August 1988

PROCLAMATION

From the Governor of Maryland, William Donald Schaefer

AMATEUR RADIO WEEK

JUNE 20 - 26, 1988

WHEREAS,

Over the years, Maryland's more than 8,000 proud and heralded licensed amateur radio operators have remained devoted to practicing their communications skills while also volunteering their services in the interest of our people; and

WHEREAS,

Amateur radio operators are on continual alert to furnish vital emergency communication facilities in times of natural disaster, to help provide for medical assistance, and to lend their expertise in periods of time requiring civil defense measures; and

WHEREAS,

Maryland amateur radio operators are prepared to give generously of their time and resources in aiding others to communicate with their families from inaccessible points throughout the world and from ships at sea; and

WHEREAS,

Maryland is indeed pleased to join in congratulating these special operators on their impressive commitment to their fellowman, as they nobly seek to promote international understanding and goodwill.

NOW, THEREFORE, I, WILLIAM DONALD SCHAEFER, GOVERNOR OF THE STATE OF MARYLAND, do hereby proclaim June 20 - 26, 1988 as AMATEUR RADIO WEEK in Maryland, and do urge all citizens to commend these operators as they brighten the lives of others through communication.



Given Under My Hand and the Great Seal of the State of Maryland
this 20th day of June

One Thousand Nine Hundred and Eighty-eight

William Donald Schaefer
Governor

Ernest D. Eby
Secretary of State

Official Journal of the Foundation for Amateur Radio

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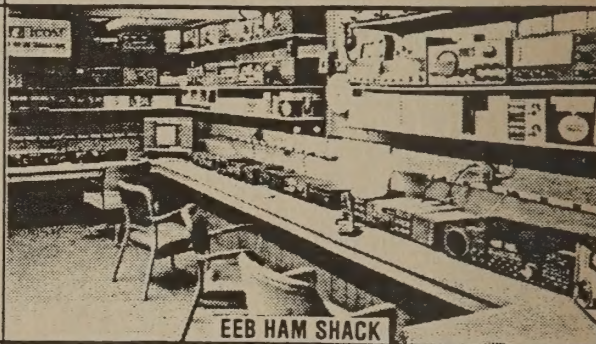
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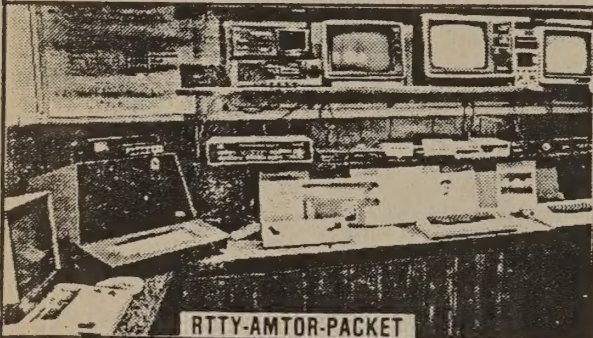
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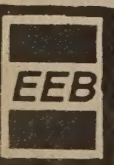
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AUTO-CALL has paid subscriptions of well over 1,200 and a total circulation of about 1,600. Copies are sold at local stores and a number of Swap and Complimentary copies are mailed. The magazine is entered as third class non-profit matter at the post office at Arlington, Virginia.

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T-MARC, The Middle Atlantic FM & Repeater
Council
Vienna Wireless Society
Washington Adventist Amateur Radio Association
Washington Area Young Ladies' Amateur Radio Club
Washington Radio Club
Woodbridge Wireless, Inc.

EDITOR'S Editorial

Amateur Radio has received some very impressive recognitions in the past few weeks. We are very pleased to see the proclamation of Amateur Radio Week in Maryland (See front cover and story on page 25). Now we hear that Congress is considering a Concurrent Resolution which expresses the "Sense of Congress" that it supports the Amateur Radio Service and its radio frequency allocations. (Page 25).

This recognition and support of Amateur Radio in such high places is certainly welcome - and very important to our future. There are many demands for our precious frequencies and there is much lack of general understanding about the true nature and value of Amateur Radio. We need to take advantage of every opportunity to get a positive image to the public and to the people who may control our destiny.

The ARRL and many individuals are working constantly to promote Amateur Radio, but they can use all the help they can get! We all should make every effort to make the public aware of the great service Amateur Radio has to offer and the many accomplishments of its clubs and members.

Take advantage of every opportunity to promote Amateur Radio. When something like the Congressional Concurrent Resolution comes up, be sure to make it known that you are hoping for support. Send newsworthy stories to your local newspapers, club newsletters, etc. There are lots of good stories out there. See the story on page 30 about the teacher who has used Amateur Radio to turn his reading classes from ho hum drop-outs to enthusiastic students - and now has a waiting list for his classes! There are many more success stories and activity reports that will appeal to editors - and their readers. Make sure they get them.

Ethel - K4LMB

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FCC Highlights

Bill Grenfell, W4GF

"The Department of Defense and the National Communications System have come down hard on United Parcel Service and its attempted grab of the lower 40% of the Amateur 1-1/4 meter band." (220-222 MHz) "It did this in response to late filed comments by UPS on Docket 87-14. "The DOD indicates that it is in the midst of several research projects that show the importance of keeping radiolocation as the primary service from 216 to 225 MHz. "Amateur Radio shares the 1-1/4 meter band with radiolocation." "Concurrent Resolution 317 was introduced in the US House of Representatives on June 14.....to express the sense of the Congress concerning support for Amateur Radio and Amateur Radio frequency allocations vital for public safety purposes." (Introduced by Representatives Dornan, CA and Goldman, CT). (Westlink Report 06/10/88 & 06/24/88).

"In...General Docket number 88-821, the FCC has proposed the labeling of radio scanners to advise users that it may be unlawful to intercept protected communications." "The FCC said the advisory label would be the simplest and least burdensome method of alerting the public that some uses of scanning devices are prohibited. "Apparently this would not affect Amateur Radio receivers, because those receivers marketed for 'licensed services' are excluded from the action." (ARRL Letter, 06/11/88); (Westlink report, 06/24/88; W5YI Report, 06/15/88).

"Lawrence R. Kevor has been appointed as Assistant to the Chief of the FCC's Private Radio Bureau. "A career FCC staff member since 1983, Kevor has served as the Senior Advisor in the Legal Branch, the Tariff Division and the Common Carrier Bureau before his appointment to this new position." (Westlink Report, 06/24/88).

"The Extra Class written examination will change to a new updated version on November 1, 1988. " The QPC is currently

considering newly submitted questions to the Element 2 (Novice) and 3A (Technician) examinations which will be revised and implemented on November 1, 1989." (W5YI Report, 06/16/88).

At the ARRL West Gulf Convention this year, FCC's John Johnston expressed concern that examination cheating by applicants - and in some cases by volunteer examiners - is a growing and very expensive problem to the government. "He said the VEC System is successful and working, but that VECs must be very alert and watchful. "He noted that, in some cases, innocent applicants are affected in that their examination results must be invalidated because of improper testing procedures. "The rules provide for license revocation, fines and imprisonment against those involved in fraudulent Amateur Radio operator examinations. "The FCC is currently actively pursuing each of these punishments against those involved at all levels of the testing process. "Johnston said a total of 49,728 applicants were administered 81,042 examination elements at 4,378 sessions in the VEC System last year - a record." (W5YI Report, 06/15/88).

A Centerdale, RI Amateur "...has received a written reprimand from the FCC for signing as a VE at a December 20, 1987, North Providence test session when he was not present. "Three accredited examiners were at the test session, but one neglected to certify some of the applications." The Amateur, "...who was scheduled to conduct the examination and had been hospitalized, signed the Form 610's from his hospital room to expedite their handling." (W5YI Report, 06/15/88).

A Washington, D.C. Amateur, N3NL, has filed comments in the Docket 88-139 Part 97 rewrite asking that Amateur licensees be allowed to experiment with radar technology, to develop radar sets for the blind, for mobile robots, digital processing systems for fixed radar units, etc.

FCC HIGHLIGHTS - Continued

He proposes that all but Novice Class operators be allowed to use not more than 50 watts for such purposes in the 1200 MHz, 24 GHz and 47 GHz bands. (W5YI, 06/15/88)

"...the ARRL will file comments in opposition to RM-6363, a petition ...seeking sideband privileges in the 10.1-10.15 MHz band (30 meters), which is currently an exclusive CW and RTTY/data band. (ARRL Letter, 06/11/88).

The FCC has denied a petition by Carol L. Norton, NA4I which sought to authorize the use of Amateur stations for communications between family members, limited to families where at least one person holds an Amateur Extra Class license. "The petition sought to permit the licensee's immediate (non-licensed) family members to act as station control operators, but only for communications with the Extra Class operator." In denying the petition, FCC said the Amateur service should not be used as an alternate to other radio services, referred to the qualified operator requirements of the international Radio Regulations, and of the Communications Act of 1934. The FCC further stated: "The petitioner, in effect, seeks to use the Amateur service for a purpose not intended (i.e. as a personal radio service) and a primary purpose of the Amateur service is to improve and expand our country's reserve of radio operators who contribute to the advancement of communications technology. Only Amateur Radio operators who possess technical knowledge and operating skills

are capable of meeting these objectives. Thus the purpose of the Amateur service is best served by the application to all users of a licensing requirement based on demonstrated abilities." (ARRL Letter, 06/11/88).

THE LATEST CALLS ISSUED FOR
THE STATESIDE, ALASKA AND
HAWAII CALL AREAS WERE:
AS OF 1 June 1988

GENERAL/			
EXTRA	ADVANCED	TECH	NOVICE
NR1U	KC1JS	N1FTJ	KA1SFG
WG2L	KE2HH	N2IGT	KB2FWJ
NQ3I	KD3IB	N3GHH	KA3TGJ
AB4IQ	KM4CH	N4TAD	KC4FRR
AA5GA	KG5KT	N5MRD	KB5GOP
AA6IV	KJ6HW	N6SIL	KB6YSO
WO7N	KF7KV	N7LDS	KB7FFO
WG8N	KE8SD	N8JPA	KB8EZH
NZ9H	KE9LB	N9HNR	KB9BAB
WJØK	KEØVZ	NØJKE	KBØCVG
HAWAII	AH6JA*	NH6PI	WH6BYU
ALASKA	AL7JY*	NL7OA	WL7BRT

* EXTRA CLASS ALSO ASSIGNED
FROM THIS GROUP

END-OF-MONTH LICENSE TOTALS		
CLASS	April 1988	May 1988
EXTRA	44,819	45,208
ADVANCED	98,403	98,493
GENERAL	113,623	113,648
TECHNICIAN	95,810	96,888
NOVICE	82,780	82,675
TOTALS	435,435	436,912
Gf		

FOUNDATION MEETINGS

The Foundation for Amateur Radio meets the second Wednesday of each month. For the summer months, meetings are being held at the Columbia Union College, Science Building, in Takoma Park, Maryland. All are welcome to attend. Talk-in on 147.18.

Membership in the Foundation is open to all Amateur Radio organizations in the greater Washington area. For further information phone the Foundation Secretary, Mary Moore, at (703) 820-3044 or write Corresponding Secretary Irene Akers - W3RXJ, 2443 St. Clair Drive, Temple Hills, MD 20748.

American Radio Relay League Report

By John Swafford - W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active radio amateurs. Any League member may subscribe to the ARRL LETTER.

PHASE 3C IS NOW OSCAR 13! Amateur Radio celebrates the birth of a new star. Phase 3C has become AMSAT OSCAR 13. The launch was carried live by WIAW, and occurred at 11:19:04 UTC on June 15.

The newest AMSAT satellite came to life right on schedule two hours and 50 minutes after a picture-perfect launch, when the first telemetry signals were heard indicating the bird was alive and well.

The satellite uttered the first telemetry at 14:03:38 UTC from 27,000 miles above the Indian Ocean, and by all indications all systems were operating properly.

AMSAT OSCAR 13 beacon frequencies are as follows:

Mode B GB: 145.812 MHz EB:145.985
Mode L GB: 435.651 MHz EB:435.677

AO-13 may be heard on any one of these frequencies, and the transponder will be available for general use in 4 to 6 weeks. Details concerning frequencies of operation, as well as suitable ground station equipment, may be found in June QST, page 22. Updates will be transmitted regularly by WIAW bulletin.

ARRL PACKET RADIO CONFERENCE. The ARRL will be hosting the Seventh Annual Packet Radio Conference Saturday, October 1, 1988. The Conference is scheduled to be held at Johns Hopkins University Applied Physics Laboratory, near Columbia, Maryland.

Papers are sought for this Conference, and must be submitted, camera-ready, prior to August 25, 1988. Technical papers on all aspects of Amateur Radio

are invited. Those on digital techniques are of particular interest.

To submit a paper, or for further information, contact Maty Weinberg at ARRL HQ.

ARRL MEMBERSHIP CONTINUES TO RISE. Membership in the League continues its upward movement. Listed below are the membership totals as of May 31.

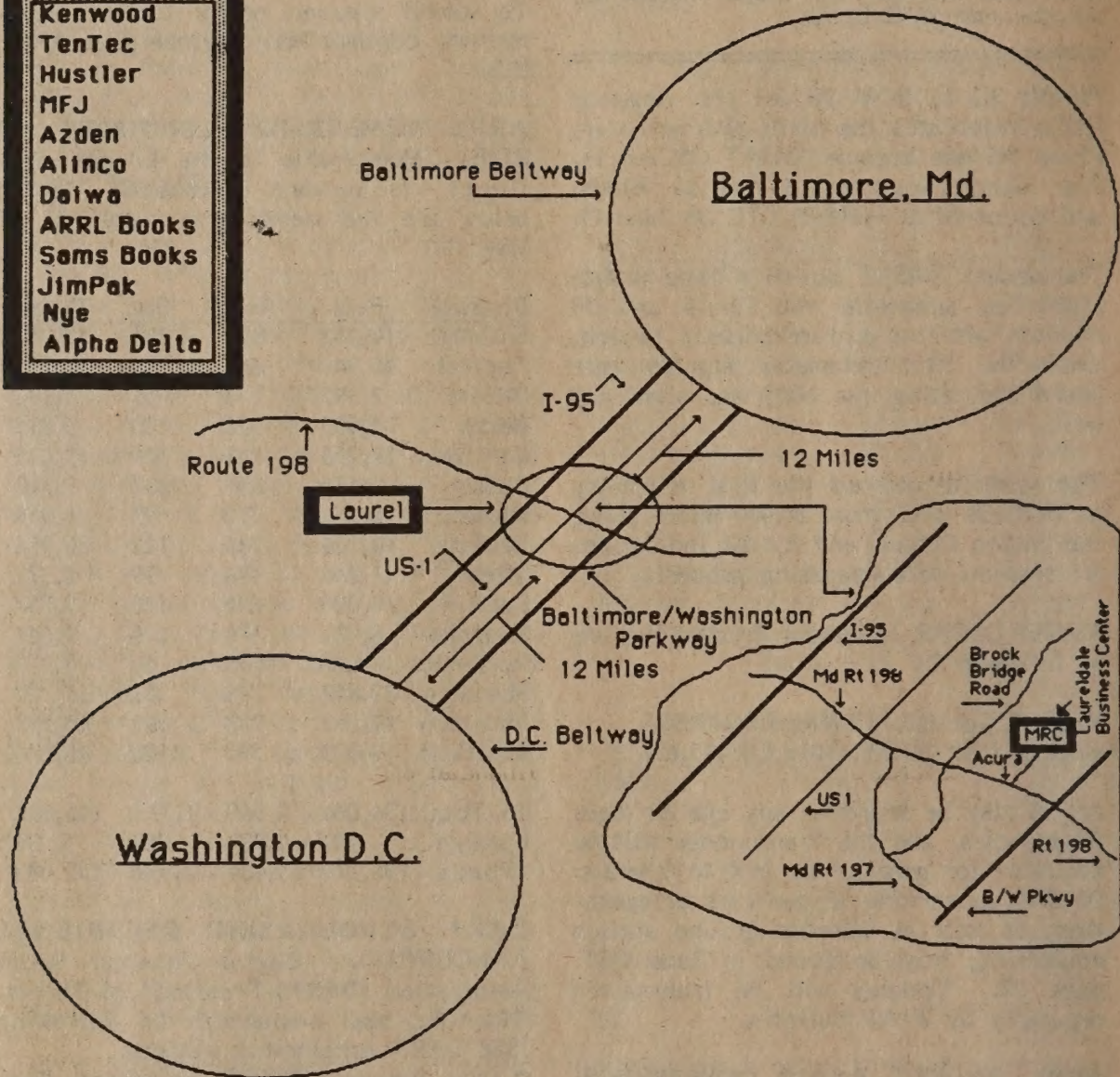
Division	Full	Asoc	Sub.	Total
Atlantic	14,242	921	191	15,354
Central	10,941	607	184	11,732
Dakota	2,985	153	58	3,196
Delta	5,509	326	60	5,895
Gt Lakes	12,252	648	125	13,025
Hudson	8,675	836	207	9,718
Midwest	6,554	310	95	6,959
NewEng	10,126	738	122	10,986
NWest	7,836	436	99	8,371
Pacific	9,023	604	120	9,747
Roanoke	8,971	574	116	9,661
RockyMtn	4,067	253	53	4,373
SEeastn	12,857	769	81	13,707
SWestern	12,647	788	162	13,597
WestGulf	9,379	597	100	10,076
US Total	136,064	8,560	1,773	146,397
Foreign	15	4,904	766	5,685
Totals	136,079	13,464	2,539	152,082

DARA SCHOLARSHIP RECIPIENTS ANNOUNCED. Dayton Amateur Radio Association (DARA) President Al Torres, KP4AQI, has announced the following 1988 DARA scholarship winners:

- * Lynn Bailey, KA8PWD, Princeton, West Virginia
 - * Scott Sterling, KA8UGM, Coldwater, Michigan
 - * Ross Lepiane, WG7I, Walla Walla, Washington
 - * David Milthaler, N8FGX, Tipp City, OH
- Each of these students will receive \$1000 toward tuition at the school of their choice. This scholarship is open to any FCC licensed amateur who graduates from
- (Continued)

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Closed Sunday

ARRL REPORT - Continued

high school in the year that the award is given. There are no restrictions on license class, or the course of study chosen by the recipient.

Information and application forms may be obtained by writing: DARA Scholarships, 317 Ernst Avenue, Dayton, Ohio 45405.

Deadline for receipt of next year's completed applications is May 15, 1989.

JARL HAMFEST; HAMFAIR '88. The largest hamfest in the world, HAMFAIR '88, sponsored by the Japan Amateur Radio League (JARL), is scheduled for August 26-28, in Tokyo, Japan. The event will take place in the New Hall (Shinkan) of the Tokyo International Trade Center. Concurrently, 80 manufacturers of Amateur Radio commercial equipment will sponsor a commercial fair showing the latest in Amateur Radio gear, personal computers and related equipment. The ARRL will be represented by International Programs Manager Nao Akiyama, NICIX/JH1VRQ. Last year's attendance exceeded 54,000 visitors from 18 different countries.

ARRL POTPOURRI. ARRL HQ was visited recently by several distinguished Amateurs from around the world. Olle Ekblom, SM/KV, who is visiting the US in connection with his work as Technical Manager of the Swedish Ministry of Foreign Affairs, stopped by HQ for a visit last week. Also visiting HQ was Oyekunle Ajayi, 5N/OBA, Secretary of the Nigerian Amateur Radio Society, who has maintained a consistent and highly visible presence in Amateur Radio in West Africa for more than a decade. The same week, a tour group of twenty Finnish Amateurs visited HQ while touring the US.

NEW ARRL HQ EMPLOYEES. Dennis Dzierzawski, K9EIS, has joined the ARRL staff as Laboratory Supervisor. Dennis is a graduate of the Illinois Institute of Technology, holds BSEE and MSEE degrees.

Dennis has been involved in the design, testing, and analysis of electromagnetic interference devices for the past twenty-four years. In addition to Amateur Radio, Dennis' hobbies include woodworking and music.

Also new to HQ is Kirk Kleinschmidt, NTØZ who is an Assistant Technical Editor. Kirk is a graduate of North Dakota State University, and holds a BA degree in Mass Communications/Journalism. His background is in engineering, broadcast journalism, and public relations.

Kirk was first licensed at age 14 as WDØBDA. His Amateur Radio interests include contesting, DXing, QRP, and home-brew construction (Kirk says he "prefers home-constructed creations to function the first time.")

Welcome aboard Dennis and Kirk!

1987 ARRL ANNUAL REPORT. The 1987 ARRL Annual Report is now available for \$1 postpaid to members. The Annual Report is very interesting reading for ARRL aficionados, and contains special reports from ARRL Division Directors, officers, and staff, as well as a detailed financial statement.

VEC CONFERENCE HELD IN TEXAS. Jim Clary, WB9IHH, ARRL/VEC Manager, attended the fourth VEC Conference held in Arlington, Texas on June 3.

Topics covered included reappointment of members of the Question Pool Committee to new one-year terms; the members are ARRL/VEC, Western Carolina ARS/VEC, Greater Los Angeles ARG, and W5YI Report/VEC.

The VECs also adopted a formal statement that (to the extent of the VECs' influence) they will strongly urge the utilization of questions, distractors, and answers developed by the Question Pool Committee and the ARRL.

(Continued)

Two VECs--BEARS of Washington, and Honolulu ARC/VEC--have requested that they be decertified. Both VECs believed that sufficient testing opportunities exist in their respective areas. This Conference was attended by 31 representatives from 12 VECs; the next VEC Conference is scheduled for July 1989, in Gettysburg, PA.

NEW KANTRONICS SINGLE-BANDERS ANNOUNCED. Kantronics, Inc. of Lawrence, Kansas, announced recently the introduction of five new single-band CW and SSB transceivers. There is one each for the 80, 40, 20, 15, and 10 meters. The new KT series feature noise blanker, 20 watts PEP output, LED digital readout of the entire band in 100 HZ steps, Receiver Incremental Tuning (RIT), 13.8-V dc operation, a superhet receiver with 9 MHz IF, and 0.4 microvolt sensitivity.

REDUCED SUBSCRIPTION RATES ON ARRL LETTER. The ARRL Letter is available to many field volunteer leadership officials at a reduced subscription rate of \$10. Contact Kathy Fay in the Circulation Department at ARRL HQ for details and subscription form.

SUMMER EMP TESTS MAY AFFECT AMATEUR EQUIPMENT IN THE VA CAPES AREA. The United States Navy announced it is planning to operate the Electromagnetic Pulse Radiation Environment Simulator for Ships (EMPRESS II) in international waters off the Virginia Capes operating area (VACAPES), located about 15 miles offshore from Currituck Light, North Carolina.

The purpose of EMPRESS II is to assess the vulnerability/survivability of Navy ships' electrical and electronic systems to EMP exposure.

The Virginia Capes site was selected because it offers access to a full range of ships, as well as allowing deep draft vessels access to the test area, while presenting minimal conflicts with other users in the area.

EMPRESS II will be in operation in the Cape area during the summer months of June, July and August, with notices being provided to the public, other maritime users, and aircraft, regarding its operating schedules. The restricted zone is a two-nautical-mile radius around EMPRESS II, as well as from the surface to an altitude of 6000 feet. The Navy will be providing for independent scientific study of any adverse effects on marine life or ecosystems in the area, and as with previous environmental research related to EMPRESS II, final results are available to the public.

SPACE SHUTTLE SCHEDULE. The resumption of NASA space shuttle missions moves one step closer with the successful test firing of Morton-Thiokol's redesigned Solid Rocket Booster (SRB) engine.

This test was the fourth of five necessary, and was seen as being "extremely good." The final test is scheduled for late July, and will have some intentional flaws included to test the system to its limits. If progress continues at this pace, officials say shuttle flights could resume in late August or early September.

ERROR IN CALLBOOK. The Radio Amateur Callbook, Inc., reports that because of a computer programming error in the 1988 Callbook supplement, all Novice licenses are incorrectly shown as Advanced. This means that the supplement (Volume 66, No. 2) cannot be used to determine license class of these licensees.

VUCC ABOVE 300 GHZ. Effective on September 1, the VHF/UHF Century Club (VUCC) is available for laser contacts above 300 GHz. The minimum number of grid squares to qualify is five (5) between licensed Amateurs using coherent radiation on transmission and employing at least one stage of electronic detection on receive. Plaques are offered to the first five qualifiers.

#####



PUBLIC SERVICE REPORT

FCC Regulations 97.1: "The rules and regulations in this part are designed to provide an amateur radio service having a **FUNDAMENTAL PURPOSE . . . SERVICE TO THE PUBLIC** as a voluntary noncommercial communications service, particularly with respect to **PROVIDING EMERGENCY COMMUNICATIONS.**"

Jeff Wilkes, W4NFA

--- FAIRFAX PARADE ---

Thirteen members of the Northern Virginia FM Association provided amateur radio communications for the Fairfax City July 4th Parade using 145.79 MHz. simplex. Stationed along the parade route and in the staging area, the hams coordinated operations among parade officials and the police department.

The hams arrived at 0830 for briefing and assignments. They were soon put to work handling the heavy traffic associated with locating parade units, lining them up, inserting substitutes, and revising the marching order. As the parade started at 1000, the hams also became involved in monitoring parade progress and assisting the police in crowd control. Problem situations along the route were reported to police for resolution (in one case hams reported that a vendor was blocking the parade route and he had to be forcibly removed by police). The parade was over at 1200.

Joe W4LBL coordinated the effort and operated net control from the City Hall. The participating amateurs included Bob KB4PDP, Nancy NK4U, Margarete WB4IKU, Tom K4FHK, Bob KB4ZSS, Joe WB4WZZ, Steve N4OGR, Lisa KB4LFQ, Steve WB4YHD, Glenn KA4REI, Rick KB4NRU, and Hal WA4QVT. The hams were provided with official parade hats and shirts, and were invited to a luncheon after the parade was over. Thanks to all for a job well done.

-reported by Joe W4LBL

--- OLD DOMINION 100 ---

Sixteen amateurs from the Washington metropolitan area and from the Front Royal-Winchester area provided administrative and tracking communications for two concurrent races, a 100 mile run and a 100 mile horse ride. A portable 2 meter repeater and a portable 220 MHz. packet digipeater were located on a ridge to provide reliable communications over the mountainous courses of the Old Dominion 100-Mile Endurance Race which started at 0400 Saturday June 11 and ended at 1000 Sunday June 12, 1988.

The runners and riders started at the Front Royal, Va. 4H Center, crossed Skyline Drive, crossed the South Fork of the Shenandoah River, and traveled over Massanutten Mountain into Fort Valley (between the North and South Forks of the Shenandoah. The course continued south along the east side of the valley, crossed eastward out of the valley, and retraced the earlier route back to the finish line at the 4H Center.

In addition to administrative traffic passed over the two meter repeater, tracking information (including entrant number and time through each checkpoint) was sent from portable packet stations to a central packet station computer (Continued)

PUBLIC SERVICE REPORT - Continued

at the base of operations. Special software written by N4NTL and N4NUN processed the information, then retransmitted the resulting data by packet to any station requiring the information.

The Shenandoah Valley ARC, the Vienna Wireless Society, and AMRAD were represented at the event. Participating amateurs were Lawrence N4NTL, John N4NUN, Dave N4JGQ, Rob NT4S, Bill WB8NFB, Bobbie KA4SMY, Hal WB3KDU, Joe NA3T, Dave WB4JFC, Bob KK4GB, Dane KE4TZ, Jeff KB4PCC, Chris KK4GC, Sandy WB5MMB, Nan KA4DAJ, and Bob N4CHP.

-reported by Dave N4JGQ

--- LOCAL HAMS AT GETTYSBURG ---

While most of us were busy with Field Day '88, a couple of hundred hams were providing communications for the Battle of Gettysburg Reenactment held to celebrate the 125th anniversary of the original battle. Bob N4SCK and his XYL joined the operation on Thursday June 23. Jim WD4EKS, Tom N4BYF, and Joe WB4WZZ were on the scene on Saturday and Sunday (June 24 and 26). The participants in the reenactment were set up in three full-blown "period" camps: a Union Army camp, a Confederate Army camp, and a civilian camp. Support personnel, including our four locals, camped in modern style in a fourth camp.

During the weekend, Jim, Tom, Bob, and Joe discovered another local ham, Mike K3LHT, who was a Union soldier in the reenactment. Those modern, air conditioned campers in the support personnel camp must have look mighty inviting to Mike during those 102 degree days.

Because of the weather, there were numerous medical problems requiring communications in addition to the tremendous amount of operational traffic passed. Ham communications was used to coordinate "troup" movements during the battle reenactments, to coordinate personnel transportation, and to coordinate logistics of all kinds. In the evenings, third party traffic was handled for the thousands of encamped participants. The complete story of the operation will be carried in either the September or October issue of QST.

--- OLD FASHIONED FOURTH ---

Thousands of visitors were treated to a old fashioned 4th of July celebration on the Vienna Community Center and Elementary School grounds. An arts and crafts fair, food vendors, entertainment of all types, a chili cookoff, and an evening fireworks display have been traditional for many years in Vienna, and 1988 was no exception.

It is also a tradition for the Vienna Wireless Society, Inc. to provide an amateur radio display during the July 4th fair to tell the story of our hobby to the general public, and to interest prospective hams. This year twelve people of the hundreds visiting the ham radio display expressed interest in our hobby and either joined the club outright, were added to the club mailing list, or were signed up for a training class. Many visitors learned a little about amateur radio by listening to (and in a few cases, joining in on) QSOs at either the 2 meter or HF station which were in operation throughout the day. Some visitors were interested in the three different code practice stations set up in the booth and were willing to take a few minutes (Continued)

PUBLIC SERVICE REPORT - Continued

to try learning a few letters of Morse code. Numerous flyers were given out to interested visitors. Visiting hams included the Mayor of Vienna, Charlie W4WTX, Don W4WTX, Bill W4MIB and his xyl Pat, Frank K4BZ, and Ray K5RJ with his xyl Joan.

The real attention getter, however, was Robbie the ham radio robot. Robbie, wearing a Vienna Wireless Society cap and carrying a pincerfull of flyers, spend the day traveling around in front of the exhibit, inviting people to come see the hams. The club members were amazed and amused at the reaction of children of all ages to Robbie. On numerous occasions, crowds of children (usually two to ten years old) would gather around to talk to Robbie. Since Robbie only stands twenty inches tall, the children would sit or lie down in order to look him in the face. In several cases, children spent twenty to twenty-five minutes talking to Robbie (quite a challenge to Robbie's operator, Jeff W4NFA, who could transmit voice to the children through Robbie but could not receive their end of the conversation.) Seldom did a child look around for an operator, most seemed to accept Robbie at face value. Jeff found Robbie on sale at the Dayton Hamvention.

The exhibition was a great success and everyone who participated had an enjoyable day. Thanks to the following Vienna Wireless Society members who set-up, tore-down, and manned the exhibit: Bob KK4GB, Ken W4JQT, Barney WA4HIM, Bob W4OWA, Jim WI4A, John KA4YMA, Art N4JMJ, and Vern W4DZI.

PUBLIC SERVICE CALENDAR

8/15/88: National Capital ARES (NCARES) Council Meeting; 1915 at D.C. Red Cross Chapter House Board Room 2021 E St. NW

9/3/88 - 9/5/88: International Children's Festival at Wolftrap; Joe WB4WZZ 241-0078

9/19/88: NCARES Council Meeting; 1915

10/17/88: NCARES Council Meeting; 1915

Material for PUBLIC SERVICE REPORT can be left at W4NFA-1 PBBS on 145.07 or mailed to 9809 Meadow Dale Ct., Vienna, Va. 22180. Deadline for receipt of material is the fifth of the month.

TELEPHONE RFI

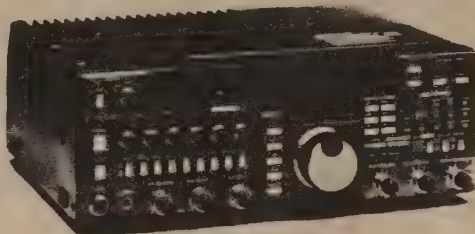
If you are having a problem with nearby telephones picking up your Amateur Radio transmissions, there is a filter you can purchase from AT&T Technical Services Division that may help. The Z-100A is a modular in-line filter for desk phones, priced at \$17.95 plus tax and shipping. A similar model is available for wall phones. (The filter is guaranteed only in conjunction with AT&T manufactured phones.) Pick one up at your local AT&T store or order by phone with major credit card at (800) 222-3111.

(Westlink Report via ARNS Bulletin 6/88)



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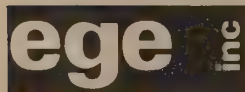
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1300 Virginia Traffic Net: 7.26 SSB
1800 Maryland Emergency Phone Net: 3.920 SSB
1800 Virginia Sideband Net: 3.947 SSB
1830 Virginia Slow Net: 3.68 CW
1900 Virginia Net (early): 3.68 CW
1900 MD-DC Net: 3.643 CW
1915 Shenandoah Valley Emergency Net: 146.22/.82 FM
1930 MD Slow Net: 3.717 CW
2100 Vienna Wireless Society Pow-Wow Net: 28.4 SSB
2200 MD-DC Net: 3.643 CW
2200 Virginia Net (late): 3.68 CW
2215 Virginia Late Net: 3.947 SSB

Weekends & Holidays:

4/1-11/15 1100/1500: Chesapeake Bay Weather & Traffic Net: 147.705/.105 FM

Sundays:

0900 Sunday Morning Coffee Net: 50.4 AM
1900 Maryland 6 Meter Free State SSB Net: 50.125
1900 Washington Co. 2-Meter Net: 146.94/.34 FM
2100 Md-DC-NVa Regional EC Net: 146.91/.31 FM

Mondays:

2000 Woodbridge Wireless Net: 147.84/.24 FM
2030 Maryland Mobileers Net: 146.805/205

Tuesdays:

1930 Arlington ARES Net: 146.58 FM
2000 Mt. Vernon ARES Net: 146.055/.655
2000 Montgomery Co. RACES/ARES Net: 146.46 FM

Wednesdays:

2145 (Third Weds. of each month) Virginia Section ARES Appointees Net:
3947 KHz LSB

Thursdays:

1900 Four State Net: 147.09/.69 FM
1930 Vienna Wireless Society Emergency Net: 146.085/.685 FM
2000 Alexandria Radio Club Net: 147.915/.315 FM
2000 Ole Virginia Hams Net: 146.37/.97 FM
2100 Prince Georges Amateur Radio Emergency Service Net: 147.75/.15 FM
2100 Vienna Wireless Society Traffic Net: 28.010 CW

Saturdays:

1900 MCNRC Net: 52.25/53.25 and 144.95 FM

Emergency only-as required:

Vienna Emergency Net A (VEN/A): 3910 KHz (7260 altern) SSB
VEN/B: 3947 KHz (7240 altern) SSB
VEN/E: 3680 KHz (7050 altern) CW

Note: All times are local (EST/EDT) unless otherwise specified.

Training Classes

Robert Milligan - KI4MB
6608 N. 18th Street Arlington, VA 22205
Phone (703) 533-0650 (Home), (703) 534-1319 (Recorder)

This column lists all known Amateur Radio license courses in the greater Washington/Baltimore area and the name and phone number of contact persons at participating clubs. Please keep KI4MB advised of any changes so we can keep this list up-to-date

Novice Classes, Winchester, Virginia. Sponsored by Shenandoah Valley ARC. Starting August 29 and meeting every Monday from 7:00 p.m. to 9:00 p.m. through November 14 at SVARC Clubhouse, 2921 Grace Street, Winchester, VA 22601. For information contact Walt Quitter - NC4B at 367 Buckingham Drive, Stephens City, VA 22655. Phone (703) 869-5241 days.

General/Technician theory course, Sterling Park, VA. Sponsored by Sterling Park ARC. Classes start September 17 and meet each Thursday evening for 12 weeks- 7:30 - 9:30 p.m. For information, call Art Nevins - WA4NTP (703) 437-9382.

Novice Classes, Vienna, Virginia. Sponsored by Vienna Wireless Society. Starting in September. Classes will be held at the Vienna Town Community Center. More details will be reported in the August issue of Auto-Call. Contact: Dave Guffy (703) 385-6608.

GENERAL INFORMATION

Alexandria Radio Club - contact Harry Jones - N4CWP (703) 521-4624
Anne Arundel - contact Tony Young - WA3YLO (301) 262-1917
Baltimore ARC - contact Ralph Huber - KA3HAM (301) 321-5748
Baltimore Radio Amateurs TV Society (BRATS) - Contact Bill Self (301) 669-0149
Chaverim, Inc. - Contact Bob Teitel - W3IDT - (301) 654-3484
Frederick ARC - contact Steve Bauman - W3FOA - (301) 662-4552
Goddard ARC- contact Chris Spinolo - KA3RTC - (301) 776-5710
Laurel ARC - contact Frank Treadwell - K3LDE (301) 498-2213
MADRAS - contact Renee Culver - KC3NG (301) 949-9220
Montgomery County Department of Recreation - (301) 468-4050
Mount Vernon ARC - Contact John Forrest - WZ4A (703) 820-3044
Rock Creek ARA - contact Walt Ramsey - AK3B (301) 949-3954
Shenandoah Valley ARC - contact Walt Quitter - NC4B (703) 869-5241
Southern Maryland ARC - Contact Bob Curran - KA3GCC (301) 627-3040
Sterling Park - contact Art Nevins - WA4NTP (703) 437-9382
Tri-County ARC - contact Al Sines - WA3QGA, P.O. Box 710, College Park 20740
Vienna Wireless - contact Dave Guffy - NY4V (703) 385-6608
Washington Adventists - contact Henry Miller - W3BWN (301) 474-7376
Woodbridge Wireless -contact Tim Farrell - AF2T (703) 590-5226

This column is published in each issue of the Auto-Call magazine.

Local clubs are urged to list their training programs
far enough in advance for effective publicity.

FOUNDATION FOR AMATEUR RADIO
Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

**SCHEDULE OF EXAMINATIONS
1988**

IMPORTANT NOTE: Certificates of successful completion for theory tests are not always accepted. Check with the contact person for the exam you wish to take.

- July 31 BRATS HAMFEST (Howard County Fair Grounds) (Laurel VEC)
Contact: Jim Kessler, KQ3S (301) 953-1065
- Aug. 6 University of Maryland ARC (College Park, MD) (W5YI VEC) Walk-in
Contact: Scott Rosenfeld - NF3I (301) 963-4008
- Hampton Roads Radio Association (W5YI exam)
Contact: Bill Runyon - N4BDH (804) 587-8611
- Seaford, Delaware (Laurel VEC) Walk-in
Contact: Richard Osborne - KV3D (302) 629-0607
- Aug. 7 Shenandoah Valley ARC (Berryville Hamfest) (ARRL VEC) Limited Walk-in
Contact: Walt Quitter - NC4B (703) 869-5241
- Aug. 13 Frederick ARC (Frederick, MD) (ARRL VEC) Limited Walk-in
Contact: Rick Ogden (301) 845-2670
- Aug. 18 Baltimore ARC (Towsen, MD) (Laurel VEC) Walk-in
Contact: Ron Derencz (301) 765-2843
- Sept 10 Peninsula Radio Operations Society (Salisbury, MD) (Laurel VEC)
Pre-registration preferred
Contact: John Luppert, K3NOQ (301) 749-7444
- Montgomery/Montgomery College/Rock Creek ARC (Germantown, MD)
(ARRL VEC) Walk-in
Contact: John Muller, W3QF (301) 654-0178
- Richmond ARC (Richmond, VA) (ARRL VEC) Walk-in
Contact: Ron Bolton (804) 798-5191
- Sept 11 FAR Gaithersburg Hamfest (Gaithersburg, MD) (Laurel VEC)
Exams will not be given at the fairgrounds. For location and details -
Contact: Jim Kessler (301) 953-1065
- Sept 18 Baltimore Radio Amateur TV Society (Baltimore, MD) (Laurel VEC)
Contact: Steve Silberman, K3RMX (301) 578-8527

This column is published in each issue of the Auto-Call magazine.
Local clubs are urged to list their training programs
far enough in advance for effective publicity.

VOLUNTEER EXAMINER COOPERATIVE - Continued

- Oct. 20 Baltimore ARC (Towsen, MD) (Laurel VEC) Walk-in
Contact: Ron Derencz (301) 765-2843
- Nov. 5 Shenandoah Valley ARC (Middletown, VA) (ARRL VEC) Limited Walk-in
Contact: Walt Quitter - NC4B (703) 869-5241
- Seaford, Delaware (Laurel VEC) Walk-in
Contact: Richard Osborne - KV3D (302) 629-0607
- Nov. 12 Frederick ARC (Frederick, MD) (ARRL VEC) Limited Walk-in
Contact: Rick Ogden (301) 845-2670
- Massanutten ARA/Valley ARC (Harrisonburg, VA) (ARRL VEC) NO Walk-ins
Pre-registration required 3-4 weeks in advance.
Contact: Wayne Miller - KB4WOM (703) 867-5428
- Nov. 19 Ole Virginia Hams (Manassas, VA) (ARRL VEC) Walk-in
Contact: Harry Vorhauer - W4PVA (703) 368-6050
- Richmond ARC (Richmond, VA) (ARRL VEC) Walk-in
Contact: Ron Bolton (804) 798-5191
- Nov. 20 Baltimore Radio Amateur TV Society (Baltimore, MD) (Laurel VEC)
Contact: Steve Silberman, K3RMX (301) 578-8527
- Dec. 7 Scranton/Pocono ARC (Scranton, PA) (Laurel VEC) Walk-in
Contact: Al Sines, WA3QGA (301) 776-3046
- Dec. 10 Peninsula Radio Operations Society (Salisbury, MD) (Laurel VEC)
Pre-registration preferred
Contact: John Luppert, K3NOQ (301) 749-7444

While most examinations are offered on a walk-in basis,
preregistration is desirable in all cases.

ALL EXAMINATIONS REQUIRE THAT YOU SUBMIT:

Completed FCC Form 610 and
Copy of your current Amateur Radio license (bring original license).

For ARRL VEC exams, you must also submit a \$4.55 check made out to ARRL/VEC
For Mountain VEC Exams, Novice tests are free. All others are \$2.00
For W5YI VEC Exams, the cost is \$4.35.
For Laurel VEC exams, no charge.

IMPORTANT NOTES: Certificates of successful completion for theory tests are not
always accepted. Check with the contact person for the exam you wish to take.
While most examinations are offered on a walk-in basis,
preregistration is desirable in all cases.

This schedule of Examinations can be found each month in Auto-Call Magazine
Please advise NK4U of your examination schedules.

Voluntary Resources

Mark Witt, NN4I
Virginia Section Manager

In the past three months, I have visited with four clubs, met with ARRL members at two hamfests, participated in the League Planning Meeting, leadership staff meetings, ARES exercises, the Bicentennial Station activity, and Field Day operations at two clubs. It has been pleasantly obvious that Amateur Radio in Virginia is alive and well.

Interest in what is happening in the state is growing as more are becoming aware of the interaction of the Volunteer Resources Program and their part in it. We are fortunate in Virginia to have many willing people to fulfill these slots. Indeed, there are more and more each month who are reported as joining the ranks, rejoining, or taking on more responsibility. Some clubs are more involved than others and most are extending their activities. We know that when the time comes, every Amateur operator will be there to provide the help he or she can.

Several Virginia Amateurs have moved on to ARRL headquarters: Luck Hurder - KY1T, former SM; Paul Rinaldo - W4RTI, father of Packet Radio in Virginia; and Phil Sager - WB4FDT, former SM. Geri Sweeney - N4GHI, who just received the

A-1 Operator award and who holds the Net Manager position of the Virginia Early Net, began her activities with the Virginia Slow Net.

To further expand the recognition of what services and opportunities are available to and by Amateurs, appointees and those interested in Section activities are asked to attend the Section Meeting at the Roanoke Division Convention at Virginia Beach, noon September 17. We will talk about these areas so that you can carry the information back to your clubs.

To all of you who pass traffic, participate in local exercises, read the bulletins and pass on information, who tell me, the Affiliated Club Coordinator and Public Information Officer, what your club is doing; and teach, examine, and help other Amateurs as Official Observers and Technical Coordinators, I tip my hat. Please continue to tell others about the Volunteer Resources Program, how they can help, and how it can help their club. Yours is a SERVICE of which you can be proud.

Mark, NN4I
Section Manager Virginia

What is Amateur Radio?

Amateur Radio, also known as "ham radio," is communicating. Hams, who must be licensed by their governments, operate two-way equipment from their homes and cars. They communicate with other hams across town or across the world on special sets of radio frequencies, or bands, that are set aside for Amateur Radio use.

Who are hams?

Just about anyone can be a ham—there are no age limits. Many people with disabilities find a door to the world in Amateur Radio. Some famous people are hams, but most are just people from all walks of life who like making new friends around the world.

How can I become a ham?

Getting a ham radio license is easier than you may think. In the US, the Novice (beginner's) license requires only passing a 30-question written exam on basic electronic theory and FCC rules and regulations, along with copying and sending Morse code at five words per minute.

The American Radio Relay League (ARRL) offers a wide variety of information for persons interested in radio communication. We can also provide you with a list of clubs and instructors in your area. Many local Amateur Radio clubs offer licensing courses several times a year.



For a prospective ham packet, contact the
ARRL, Dept Q, 225 Main St, Newington, CT 06111, tel 203-666-1541.

Congratulations to:

The Shenandoah Valley Amateur Radio Club on celebrating its 40th anniversary. The first regular meetings of the club were held in April of 1948.

Bill Grenfell, W4GF on having his "FCC Highlights" column recognized as one of the favorite columns in Worldradio News. (Worldradio 7/88 p4)

Ethel Smith, K4LMB on being elected a Fellow in the Radio Club of America.

Kay Craigie, KC3LM on being chosen Atlantic Division "Amateur of the Year." In addition to serving as SM since 1986, she is an Official Bulletin Station, an ARRL Registered Instructor, a Volunteer Examiner and newsletter and membership chairman for the Mid Atlantic ARC.

Harry Stein - W3CL on being named Atlantic Division's 1988 Grand Ole Man." Since becoming licensed in 1928, Harry has contributed much to the Amateur Radio Service through club work, journalism, Montgomery County RACES, and ARRL activities. He is an Assistant Director, ORS and OBS volunteer in Eastern PA.

Southern Maryland Amateur Radio Club on its campaign to provide transportation for members who find it difficult to get to meetings. Some do not have cars, others cannot drive after dark due to medical problems. Others may need a little assistance or just some encouragement. The next time you plan to go to a club meeting, think of a member, or prospective member, you might take along with you.

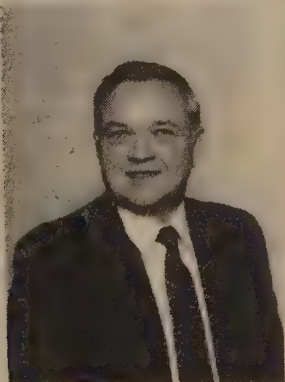
Recognitions

W4ORE - TONY ENGLAND RETIRES

According to AMSAT's "Amateur Satellite Report," Dr. Tony England - W4ORE has announced his retirement from NASA. He has cited the delay in shuttle flights and a desire to progress toward personal goals as reasons for leaving the program. The next potential "ham-in-space" will be Dr. Ron Parise - WA4SIR.

W4ORE has been actively involved with the support of Amateur Radio, and of better education of the space sciences in general, and has been a great role model for would-be astronauts around the world. He operated Amateur Slow Scan TV aboard the space shuttle "Challenger" and the SSTV pictures were seen worldwide in July of 1985. He will now be joining the faculty of the University of Michigan in Ann Arbor as a Professor of Electrical Engineering. In addition to his teaching duties at the University, he will be involved with satellite research, especially remote sensing.

ARRL Letter 6/11/88



Mark Witt - NN4I

MARK WITT - NN4I Virginia Section Manager

Mark Witt, NN4I is the Virginia Section Manager and also Affiliated Club Coordinator and Public Information Officer. See his article regarding the Voluntary Resources Program on page 19.

FCC Luncheon Meeting

By John Swafford, W4HU

FCC HOSTS AMATEUR RADIO PRESENTATION. The consumer Assistance and Small Business Division sponsored a Brown Bag Luncheon on Tues. Jun 21, 1988 in Room 856, 1919 M Street NW, Wash. D.C. Mr. Ralph Haller, N4RH, Chief FCC Private Radio Bureau was the host speaker and moderator. Some 150 radio amateurs were in attendance.

AGENDA. Those items of greatest interest included the rewrite of Part 97 of the Rules and Regulations governing the Amateur Radio Service, the "privatization" of call letter assignment, enforcement in the Amateur Radio Service, and the Volunteer Examiner Coordinators program. A question and answer period followed the presentation.

OPENING REMARKS - HALLER. Mr. Haller opened the presentation with general comments on the reorganization and deregulation of Part 97. He advised that the rules and regulations were reduced by approximately 40%. The five fundamental principles were left in-tact. He emphasized the need for input and comments by Aug 31st.

NOVICE ENHANCEMENT & SPECIAL CALL SIGNS. Mr. Haller touched briefly on both subjects. He indicated that the Novice Enhancement program has been quite successful. The novice drop out rate was down while the upgrade rate was up by some 70%. The matter of the special call signs was discussed briefly. It's been proposed that a special call sign coordinator (SCSC) would be selected and that the SCSC would then be responsible for issuing additional (special) call signs to the amateurs. So far, thirteen organizations, including the ARRL, have offered proposals for this task. To date, the Commission has made no decision on this matter. Should the Commission decide to go outside the Government for this task, the logical choice would be the ARRL (Editors comment).

MARCUS STEVENS. At this time Mr. Haller introduced Marcus Stevens of the Gettysburg licensing facility. Mr. Stevens passed out detailed information on the application and licensing procedures followed at Gettysburg. He gave the names of two others at the Gettysburg facility in charge of licensing. They were: Larry Weiker, Special Services and Darlene Reader, Sect. Chief of Processing. All three of these individuals may be reached on 717-337-1431. Mr. Stevens indicated they were processing some 130,000 license applications per year and that there were approximately 150 personnel at Gettysburg. Mr. Haller made a concluding remark that the quality (readability) of the Amateur Radio licenses was poor. He said that an alternate printing site and method was being studied.

JOHN JOHNSTON, W3BE. Mr. Johnston, Personal Radio Branch chief was introduced at this time. He spent considerable time discussing the VE program - its many virtues and some of its problems. Some statistics he offered were: there are some 60 regional VECs, there has been a 16% increase in VE sessions this past year, that the pass rate for this year is 61.86%. He referred to the local Laurel VEC and Jim Kessler and that the fourth VEC conference was just held in Dallas. Mr. Johnston was very laudatory in his comments about the overall VE program; however, as in any program, there are some problems. Some of these problems that concern or impact on the FCC the most are: delays in getting the 610s to Gettysburg, defective applications, and fraud and cheating in connection with the applications and exams. The fraud and cheating problems have been most prominent in Hawaii and Puerto Rico. Johnston advises that compliance or enforcement time usually devoted to the day to day operational problems in the Amateur service is now being used in

(Continued)

resolving fraud and cheating problems in the VE program. He specifically reminded all VEs or those in the VEC facility to screen all VEs very carefully, read all certifications and documents carefully before signing, and do not take liberties with the rules and regulations.

ROBERT MCNAMARA. Mr. McNamara is Ray Kowalski's replacement as Special Services Division chief. While he jokingly described himself as a manager of three Branches with nothing to do, we know better than that. He admitted he was not a licensed ham and was being intimidated by Ralph Haller to get his ticket.

QUESTION & ANSWER PERIOD. Mr. Haller opened up the presentation to the attendees. He reminded those present that to be heard it would be necessary to come "front and center" before the standing floor microphone and remote

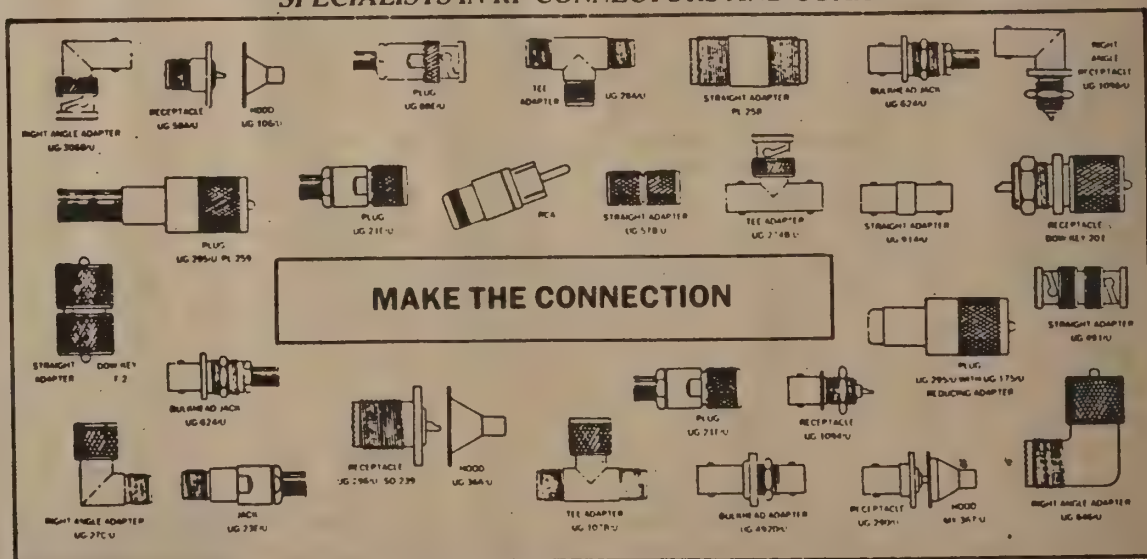
controlled ceiling cameras and introduce yourself and your subject. Those coming forward in order of their appearance were:

1. Fred Laun, K3ZO - Problems in connection with alien licensing and reciprocal permits.
2. Jack Kelleher, W4ZC - WARC 79 agreements and the 17 meter band.
3. Jim Kessler, KQ3S - Laurel VEC
4. Brad Rohrer, K1CTK - VHF/UHF repeater authentication.
5. Bernhard Keiser, WD4O - AFSTV problems of interference to fast scan TV from UHF assignments below 430 mHz.
6. Tony Fiola, K3WX - SSB operation below 7150 kHz.
7. Gary Hendrickson, W3DTN -220 mHz.
8. Renee Culver, KC3NG - Due Process and RFI.

#####

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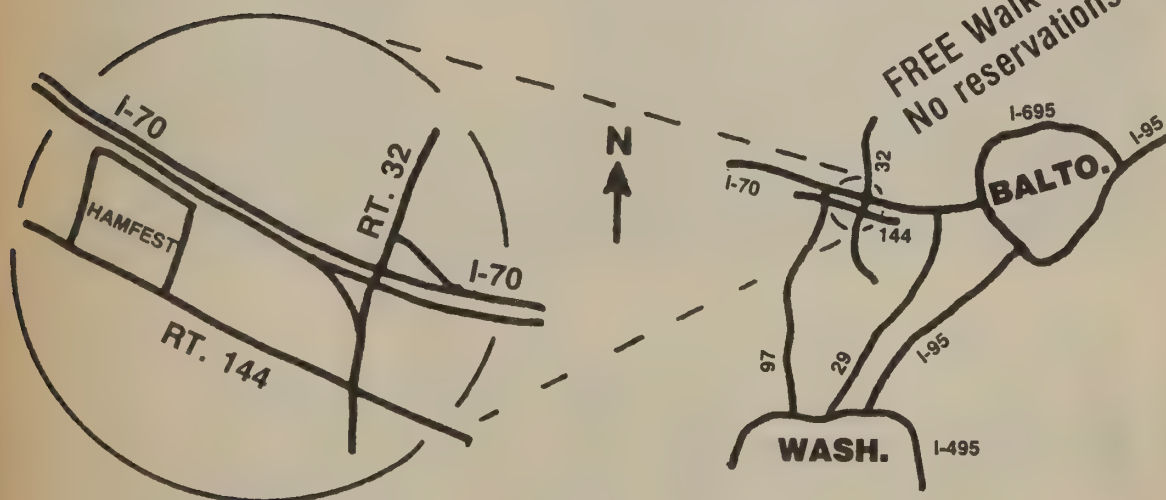
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APPROVED
HAMFEST



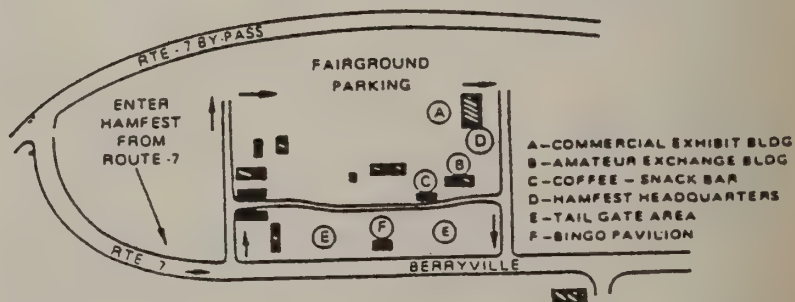
V-E

Exams

Sunday 9AM

Talk in 146.22-82 & 52 Simplex

Ladies' Bingo, Arts and Crafts (Non-Commercial)



Registration \$4.00; XYLs and Children - FREE, Grounds Open 7 AM

Tail-Gaters or Tables Bldg. B (First Come Basis) — \$5.00

SET UP BEGINS 6 AM

Cover Story

Maryland Governor William Donald Shaffer issued a Proclamation designating the week of June 20 -26, 1988 as Amateur Radio Week in Maryland. The cover photo shows the Proclamation. Below is a photo of the group from the Rock Creek Amateur Radio Association receiving the document. Left to Right:

Walt Ramsey - AK3B, John Hawley - N3ETD, Governor William Donald Schaffer, Jim McDonough - W3CY and Bob Henkel - NA3R.

Walt Ramsey was the man behind the effort to have the Governor proclaim State-wide Amateur Radio Week. The proclamation extols the virtues of Amateur Radio and calls upon all citizens to "commend these operators as they brighten the lives of others through communications."

Thanks go to the Rock Creek Amateur Radio Association in general and to Walt Ramsey, specifically, for accomplishing this recognition for Amateur Radio.



AND THERE IS MORE GOOD NEWS:

The U.S. Congress has come out in support of Amateur Radio and preservation of its frequency allocations. California Senator Pete Wilson and Rep. Robert Dornan of California's 38th District have introduced resolutions that express the "Sense of Congress" that "1) It strongly encourages and supports the Amateur Radio Service and its emergency communications efforts, and 2) Government agencies shall avoid actions which would reduce amateur radio frequency allocations for these purposes." (Senate Concurrent Resolution 127 and House Concurrent Resolution 317). Representative Dornan has also sent a letter to each Congressman detailing the public service activities of Amateurs and asking them to join him as a co-sponsor of the resolution. You might like to send a QSL to him to show your appreciation.

"Sense of Congress" Resolutions are not legally binding, but do indicate Congressional opinion on a subject. In order for the Resolution to pass, a majority of each house must agree to be cosponsors --218 Congressmen and 51 Senators. We're hopeful.

(Information from ARRL Letter of July 5)



HOST HOTEL

Gaithersburg Holiday Inn
2 Montgomery Village Avenue
Gaithersburg, Maryland 20879
301-948-8900
Call for special hamfest rates

GAITHERSBURG HAMFEST 1988

SUNDAY, September 11
Montgomery County Agriculture
Center
(FAIRGROUNDS)
Gaithersburg, Maryland

*For more information and table reservations
write to*

GAITHERSBURG 88
FOUNDATION for AMATEUR RADIO
P.O. Box 1068
Laurel, MD 20707
Call 301-776-3571 or 301-725-5137

Coming Events

MARYLAND HAMFEST & Computerfest Baltimore Radio Amateur Television Society July 31

Howard County Fairgrounds, 15 miles west of Baltimore.
For information, write BRATS, PO Box 5915, Baltimore MD 21208
See flyer on page 23

SHENANDOAH VALLEY HAMFEST - Berryville, VA August 7

38th Annual Winchester Hamfest
Clarke County Ruritan Fairground
Berryville, Virginia
See flyer on page 24

ARRL NATIONAL CONVENTION September 9 - 11 Portland, Oregon

See page 55 of July QST. For more information, write 1988 ARRL National Convention, PO Box 25088, Portland, Oregon 97225 or phone convention chairman, Al Berg, WB7SIC at (503) 640-5456. Leave a message that you need convention info.

GAITHERSBURG HAMFEST Sept. 11

Sponsored by Foundation for Amateur Radio
Montgomery County Fairgrounds
See flyer page 26

ROANOKE DIVISION CONVENTION, VIRGINIA BEACH, VA. September 17-18

The Amateur Radio and Computer Fair will feature major commercial exhibitors, forums, ladies' and children's programs, excellent food service, an indoor flea market and plenty of free parking. The pavilion is only a few blocks from the ocean beaches of the Virginia Beach Resort strip. Make this hamfest a family affair and bring the entire family to the beach. For information write:

Tidewater Radio Conventions:
c/o Manny Steiner, K4DOR; 3512 Olympia Lane; Virginia Beach, VA 23452
(804) 340-6105

QCWA NATIONAL CONVENTION SEPTEMBER 23-28

McLean Hilton Hotel, McLean, Virginia
For Information write QCWA Convention, 3442 Surrey Lane, Falls Church, VA 22042
See registration form and convention flyer on page 38.

DXPO '88 October 8-9

Best Western Inn, Falls Church, VA. U.S. Route 50 near 7 Corners. Total immersion in DX. 1:00 p.m. Saturday to 1:00 p.m. Sunday. Special section Saturday morning catering to the DXing Novice world. For information: DXPO Chairman Stu Meyer, W2GHK, 2417 Newton St., Vienna, VA 22180. See more details on page 33.

Near Miss

Mahlon Loomis
"Father of Radio"

More than 30 years before Guglielmo Marconi utilized the wireless telegraphy, a Washington, D.C. dentist, Mahlon Loomis (1826-1886) was sending signals between two mountain peaks about 15 miles apart in Loudoun County, Virginia.

There is little doubt that Loomis knew of Joseph Henry's experiments conducted around 1832 but it is apparent that he had little theoretical background to draw upon. What Loomis did in 1865 was to erect two metallic-gauze-covered kites with wire tethers, one on each of two hills west of Washington. One location is now called Bear Den (near Snicker's Gap) the other hill, a part of the Catoctin range near the Potomac, is about 15 miles away. Both kite wires were similar "aerials," and each was set up with a galvanometer to receive or send simple coded messages. His experiment was witnessed by an audience of public officials and other invited guests. Loomis's manuscripts, held in the Library of Congress, state that connecting one galvanometer caused the other - 15 miles away - to deflect, and that such was the method of signaling. He explained the wave nature of energy transfer from transmitter to receiver, featuring the familiar analogy of the pebble dropped into a still pond to produce ever expanding waves.

Many years later, Loomis's second cousin, Mary Texanna Loomis, established the Loomis Radio School (later Loomis Radio College). Here she taught radio technology at an extremely competent level to prospective engineers, including many who carried radio technology through the thirties and into WW-II. Her text book, "Radio Theory and Operating," was one of the finest to come out of the 1920s. She would often tell her school classes of Loomis's exploits with wireless, and she described later test of his over the 60 mile path from Washington's Tidal Basin (only a few blocks from Loomis's office near 9th and Pennsylvania Avenue, N.W.) to the Loomis summer cottage on the Blue Ridge overlooking Front Royal.

A number of Loomis's drawings, scientific notes and letters, as well as patents, photographs, and several pieces of the electrical apparatus are held in the Smithsonian Institution and were displayed at the Library of Congress in 1972 to commemorate the centenary of Loomis's July 1872 wireless telegraphy patent. The patent was for an "...improvement of telegraphy," to establish "an electrical current or circuit for telegraphic and other purposes without the aid of wires...and yet communicate from one continent of the globe to another."

Loomis sought to create a public corporation to exploit wireless telegraphy. A bill incorporating his Aerial Telegraphy Company passed Congress in 1873, but it did not provide the \$50,000 appropriation which he had requested to finance the venture. Stock in the company was offered on the market just as panic struck the financial world on Wall Street's "Black Friday" on September 24, 1869 and again just as financial disaster followed the great Chicago fire of October 8-9, 1871. Loomis was never able to raise enough capital to utilize his discovery commercially. Three decades later, Guglielmo Marconi utilized the same principle and found financial backing for his work. Consequently, Marconi, rather than Loomis, is usually considered the "father of radio." We think Mahlon Loomis deserves the credit.

(Information from article by Ed Lyon in the Mid-Atlantic Antique Radio Club Newsletter 6/87 and Library of Congress release 7/72 supplied by Johan Svanholm, N3RF.
(Compiled by K4LMB)

Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings: Quarterly: Call for next meeting time and place.
Repeater: WA9GVK/4 (Video and Audio) 439.25 MHz in; 426.25 MHz out
Also accessible on 144.970, simplex, audio.
On-the-air: Sundays at 8:00 p.m.
Mailing: Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information: Warren - N4MWU (703) 573-9619
Dick - WB3EPX (301) 439-8135

The Metrovision picnic and meeting was held on June 11 at the QTH of Ruth and Dave Phillips. About 26 people attended and enjoyed the fellowship and good food.



Frank doing what he does best

It was nice to see such old friends as Walter Pike, the Longs and the Mayos (who came all the way from the Richmond area). We extend our appreciation to Ruth and Dave for their gracious hospitality.



Dick Logan - WB3EPX



Ruth, Dave and Grandson, John

The attempt to raise the 440 MHz high-gain vertical antenna turned out to be a disaster, with the antenna taking a nose dive and breaking. We'll try again later. Dave - W3PJM, along with O.P. - KF4TE, did, however, conduct a successful test involving line-of-sight video transmission from Accokeek, Maryland to Woodbridge, Virginia. This test was done with respect to the possibility of having an ATV repeater site in Accokeek.

A memorial service was held on June 2 at the George P. Kalas Funeral Home in Oxon Hill, MD for Tommy Noeman-KA3MKC. His burial was at a local church cemetery. We'll miss him.

Metrovision still has plans for a fifteenth anniversary party for our September meeting. There will be a letter sent out to our members later. Details should also appear in the September Auto-Call.

See you on ATV.

Dick - WB3EPX

Maryland Emergency Phone Net

Meetings: EVERY NIGHT, 3920 kHz, 1800 Local
Net Manager: K2EB; Secretary - KA3CSM; Treasurer - W3FA
Directors: K3ONU, NO3Z, N3EGF, K2EB (Alt)

Amateur Radio exists because it qualifies as a Service. Throughout our history, we Amateurs have established a reputation for public service communications which is of the greatest importance to our continued occupation of frequencies. At first this service was rendered spontaneously and on an individual basis. As time progressed, the need for and value of organization became evident, resulting in the establishment of organized trunk lines and net systems and, later, of the National Traffic System (NTS). The NTS has two principal objectives: (1) rapid movement of traffic from origin to destination, (2) training of Amateur operators in handling of written traffic and participation in directed nets.

The MARYLAND EMERGENCY PHONE NET (MEPN) is a radio telephone net designed to provide efficient and coordinated radio communications for Maryland and the District of Columbia and to maintain traffic handling proficiency in case of emergency. It is a Section Net of the NTS and meets nightly

at 1800 local time on 3920 KHz. The purpose of the section net is to handle intra-section traffic, distribute traffic coming down from higher NTS echelons, and put inter-section traffic in the hands of the Amateur designated to report into the next higher NTS (region) echelon. Therefore, the maximum participation from section Amateurs is desirable. If you can spend some regular period a week handling traffic, and are interested in doing so, the MEPN can use you! Emergency-conscious and traffic-conscious operators have something in common: they both derive their chief pleasure out of activities which are directly beneficial not only to Amateur Radio but also to their community and to their country. Come join us on the MEPN and experience another facet of this great hobby!

(Portions of this article were taken from ARRL "Public Service Communications Manual."

Bob, K2EB

SUCCESSFUL TEACHER

Joe Fairclough, WB2JKJ, teaches English in a junior high school in New York City. He had a class of 30 disinterested students when he got the idea of teaching grammar and ham radio basics at the same time. He now has 225 student slots and a waiting list of people dreaming to get in.

Joe became discouraged with teaching students who drop out, who don't want to learn, who simply call it quits. He saw that Dick-Jane-Spot books weren't working with his students - who would rather "shoot Spot than see him run." So he tried the approach of using a modified ham radio handbook to teach grammar and ham radio basics at the same time. It is WORKING!! In his classroom the radio is always on. His students have contacted every state and more than 150 countries.

Ham radio operators all over the world have offered support. Even President Reagan sent a letter of appreciation for Joe's efforts.

(From story by Grace Ballentine in Central Arkansas Radio Emergency Net Newsletter)

Maryland Mobileers Amateur Radio Club

Address: P.O. Box 784, Severna Park, MD 21146
Meetings: First Friday of each month at 1930 hours. C.I.D. Building at
Crownsville State Hospital, Route 178 and Crownsville Road
Club Repeater: 146.805 MHz
Traffic & Information Net: Monday evenings at 8:30 p.m. on 146.805 MHz
For Information: Nancy Alley - N3FHB, Secretary



FIELD DAY

The Maryland Mobileers operated a QRP 2A station at Downs Park, using solar and battery power. A Yagi tribander and a rhombic with legs 230 feet long were used. Fred - NC3F allowed the use of his call and operated. CW was the preferred mode. Also operating were Bill - K8SYH, John - KO4A, Tom - KB1HM, Marty - KC3SI, Bill - WA3SCW, Patrick - NG1W, Nancy - N3FHB, and Glenn - N3EYU.



(L to R): Patrick - NG1W, Fred - NC3F and Tom - KB2HM Operating the Yagi Tribander Station.

WA3SCW was amazed that he contacted Hawaii with 5 watts on the rhombic. Both antennas worked very well. It was loads of fun, with lots of contacts, especially for a QRP operation. Many thanks to all the operators and to the co-chairpersons, Ken - N3FGO and Nancy - N3FHB.



Bill - WA3SCW (left)
Bill - K8SYH (right)
Operating the Rhombic Station



Certificates for the TORSK operation have been mailed for all QSL cards received to date.

Dean - N3CAC
MMARC FD Coordinator

Southern Maryland Amateur Radio Club

Meetings: 2nd Friday of each month, 7:30 p.m.
Church of the Nativity, Manchester Drive, Camp Springs, Maryland.
(Right at first light on Route 5 South of Beltway and immediately left into mid-block driveway).

Repeater: W3PT/R 147.15/147.75

Nets: Informal - Tuesdays, 8:00 p.m., W3PT/R
Informal - Thursdays, 8:00 p.m., 28.447

Information: P.O. Box 273, Cheltenham, MD 20623

At long last, Sam finally received his new call sign from the FCC. He is now N3GHY. Now you can order your new QSL cards, Sam. From observing some of the Novices during Field Day '88, I'm sure we're going to have several more up-grades shortly.

Field Day '88 has come and gone and all those working this one can give themselves a well deserved pat on the back. The score amassed this year far exceeded the scores attained in recent years. The food was superb, especially that wonderful roast beef and ham, not to mention the hamburgers and hot dogs and the wide assortment of salads and desserts. Everyone enjoyed it. Kelly - KA3MVU, Janice - KA3SXY and Dean are to be lauded for a feast befitting a king.

It looked like we were going to miss Bernie - KA3DNW at our Saturday morning breakfasts for most of the Summer due to his extensive travel plans. But, as fate would have it, we have Bernie back home as a result of mechanical problems with his Airstream's tow vehicle. Sorry for the misfortune, Bernie, but we are glad to have you back for breakfasts.

Congratulations are in order for Jim-N3AST who celebrated his 80th birthday a few weeks ago. And also to Tom-WA3TAI and his XYL who celebrated their 14th wedding anniversary. May you all have many happy years ahead.

Our Repeater Upgrade Fund continues to grow. This past month we had donations of over \$400. If we can keep up at this pace, we'll have our new repeater much quicker than expected.

Some of our members do not attend the club meetings because of a lack of transportation. While some of them have cars, they cannot operate them after dark due to medical problems. The next time you prepare to come to a meeting, try to think of a member or prospective member you might bring along with you.

Joey - N3EQL, our Public Service Coordinator, had the club members working on Friday, Saturday and Sunday, June 17-19, at the Antique Show in upper Marlboro. The show's sponsors were very pleased with the professionalism and competence displayed by Joey and all his volunteers.

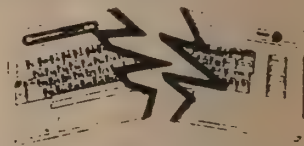
Bill - N3FHV

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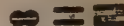


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National Capital DX Assn.

Information: Craig Stevens - KZ3H, 4409 Clifton Spring Court, Olney, MD 774-3410

The annual FOWLFEST of the National Capitol DX Association and the Potomac Valley Radio Club will be held at the home of Fred Laun - K3ZO on Saturday, August 27. This joint happening of the two clubs will begin at 2:00 p.m. at 5803 Huntland Road, Temple Hills, MD. Drinks and food, featuring chicken, are provided. There will be a nominal fixed charge for all the food and drinks. Spouses and friends are encouraged to come. Please bring chairs. NCDXA plans to conduct a brief business meeting during the afternoon.

5, Branch Avenue, to Waldorf). Stay in right lane on exiting. At first traffic signal, turn RIGHT onto Manchester. Go one block to the end of the road, then turn RIGHT onto Old Branch Avenue. Follow Old Branch Avenue around a bend, at which point it becomes Henderson Road. Continue on Henderson about one mile, where the road rises slightly and bends to the right. Halfway down the ensuing road, take the first RIGHT to the QTH of K3ZO at 5803 Huntland Road, on left side.....below the towers.

Hope all the avid DXers will join us.

DIRECTIONS TO THE FOWLFEST: Take Capital Beltway to exit 7 SOUTH (Route

Ken Miller, K6IR



DXPO '88

October 8 - 9

Best Western Falls Church Inn, Falls Church, VA

NCDXA has set the date for DXPO '88. It is the weekend of October 8th and 9th. As in the past, DXPO will start at 1:00 p.m. on Saturday and finish up at 1:00 p.m. on Sunday. This year a special section has been added on Saturday morning to cater to the DXing Novice world.

This event will take place at the Best Western Falls Church Inn on U.S. 50 in Falls Church, Virginia.

All those who have attended a Northern Virginia/Washington, DC area DXPO in the past will automatically receive a flyer with more program details. If you have not attended a DXPO or if you have moved since your last DXPO, please send your name and current address to DXPO Chairman Stu Meyer - W2GHK, 2417 Newton Street, Vienna, VA 22180.

As in the past, DXPO '88 will feature total immersion in DX.

Metropolitan Communications Network Radio Club

Meetings: Quarterly, on the second Sunday of the month.
W.A.T.A.'s Community Meeting Room, 4729 14th Street N.W.
(at Decatur Street), Washington, DC - unless otherwise announced.

Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out. Accessible on 144.950
MHz in the simplex mode.

On-the-air: Saturdays at 1900 hours.

Mailing: c/o Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903-

Information: Bob Sporn - WA3GGO (301) 434-1719

At the June 12th quarterly meeting, upon being advised that Stephen A. Rice-WB3DBU, our Repeater Trustee, was moving out of the area, the club appointed Bron R. Kidwell - N3AGB as Repeater Trustee. Auto-Call and T-MARK are to be notified.

In the past, Stephen Rice has contributed much to the "care and feeding" of the repeater. Stephen also conducted training classes for the club. We wish him well and will miss him.

Bron Kidwell has been devoting a lot of his time to the maintenance of the repeater, being aided by Marv Storey-N3FBO, our president; Frank Hispley-WA3ZAR and the late Tommy Noeman-KA3MKC.

The third quarterly meeting will be held Sunday 18 September at 1400 hours at the W.A.T.A. Community Meeting House. See address above.

THE SUNDAY MORNING COFFEE NET (6 METER AM) ON 50.4 MHZ AT 0900.

Yours truly was to have taken the net on June 5th, both the Weaver brothers having gone to the Manassas Hamfest. The 20-year old rig acted up but, thanks to Charlie Dohne - W3KZH, the net continued, maintaining its uninterrupted

record of attendance by his taking net control. Check-ins continue despite the summer doldrums.

MARYLAND FREE STATE SIX METER
SIDEBAND NET: SUNDAYS AT 1900
HOURS ON 50.125 MHZ. Several of our members took advantage of recent band openings in the UHF band.

Having just passed Father's Day, the following incident comes to my mind. In 1924, I built a three tube set - a WD 12 detector and two 201-A's as amplifiers. Electricity did not come to the Williamsburgh section of Brooklyn, NY until 1927 or 1928. Two 45-volt B batteries in series furnished the plate voltage. I considered myself very lucky in that my father invested what was to him the equivalent of three days' pay - \$18 - for the three tubes. To this day I do not know how it happened but the 90 volts of the B batteries somehow touched the filament circuit! I was devastated. Two days later my dad brought home 3 new tubes. "Check your diagram, be careful where you lay down your pliers, hook up the six volt filament circuit first, then follow through with the rest of the diagram." He never expressed annoyance, never chastised me. I built a radio receiver. My dad built character.

Bob - WA3GGO

RADIO'S FIRST TWO DECADES

Old Timers and nostalgia buffs will enjoy K2VJ's new book "RADIO'S FIRST TWO DECADES." It tells the fascinating story of radio broadcasting's beginnings. Read about spark gap transmitters, coherers, crystal sets, Audion tubes; stories and photographs of Marconi, Maxwell, Fessenden, DeForest, Etc. Nostalgic, historic and guaranteed entertaining throughout. \$4.95 plus \$2.00 shipping. Vinc Luciani, K2VJ, Cologne Press, PO Box 682, Cologne, NJ 08213

Vienna Wireless Society

25 Years of Public Service
1963-1988



Meetings: 2nd and 4th Fridays of each month, 7:30 p.m.
Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeater: K4HTA/R
Nets: Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.
Alternate simplex frequency is 147.51
10 Meter, 28.400 MHz 9:00 p.m. every night of the week except
meeting nights.
Information: Bill Mills, KC5PF/4 (703) 937-4090 (Home), (703) 359-0141 (Work)
Training Classes: Dave Guffy, NY4V (703) 385-6608
Mailing Address: P.O. Box 418, Vienna, VA 22180

ARRL FIELD DAY

Field Day '88 is now history! A lot of hard work and planning contributed to the success of this year's Field Day activities. Approximately 75 club members and guests manned the nine radio stations operated from Burke Lake Park during the event. A special Thank You is extended to the following personnel who provided leadership:

Field Day General

Bob Lipp - K4MJO

Band Captains

80 Meters Jim Dickson - W14A
40 Meters Bob Rudiselli - W4OWA & Art Walsh - AB4CG
20 Meters Dave Guffey - NY4V & Ben Baddley - W4FQT
15 Meters Art Van Wagenen - N4JMJ
10 Meters Ken Anderson - W4JQT & Skip Hayes - WA4UAU
6 Meters John Teller - N4NUN
2 Packet Jeff Wilkes - W4NFA
2 SSB Eric Reichart
Novice Steve Groves - KC4CDX

Food, Food and More Food

Dottie Scalia - N4ISN
Sandy Mills
Barbara Holland - N4HPY

Video

Brian Deporter

Publicity

Jim Parsons - WA4LTO

TOWN OF VIENNA 4TH OF JULY CELEBRATION

The 4th of July Town of Vienna party was represented by members of the VWS. The club activated radio station K4HTA near the Vienna Community Center, under the leadership of Barney Novean - WA4HIM. Various aspects of Amateur Radio were demonstrated to the public during the day.

(Continued on page 36)

Shenandoah Valley Amateur Radio Club

Meetings: 1st and 3rd Fridays of each month. 7:30 p.m.
SVARC Club House, 2991 Grace St., Winchester, VA
Club Repeater: 146.22/.82
Shenandoah Valley Emergency Net: 7:15 nightly on the repeater
Information: Cliff Kitts, KD4TZ, President SVARC, 124 Allison Ave.,
Winchester, VA 22601 (703) 667-9458

Another SVARC Field Day has come and gone, but this one was a bit different. This time we had the very good fortune of being able to use our W200RKRC call sign for Field Day. Excited over the prospects of pile-ups, SVARC members geared up with three stations, plus a Novice position. Fun was had by all as we contested through the night.

Field Day chairman Steve Czaikowski-WB4ZTR arranged for a new site this year near Strasburg. Around noon June 25th, tents, vans and antennas went up everywhere. The final score hasn't yet been tabulated, but we believe we got all the bonus points allowed.

The preparations for the SVARC Hamfest are going just fine. All the exhibitor tables have been sold out. As usual, the Hamfest is held on the first Sunday in August (this year that is the 7th) in Berryville, just off Rt. 7 on the west end of town. Everyone is enthusiastically invited. (See flyer on page 24)

The SVARC recently decided to support the WIAW renovation project. \$500 was voted by the club to be sent in to help out. Although spending money is always controversial, in the end the SVARC decided that the services provided by the ARRL - including WIAW code practice,

VE coordination, the lobbying effort at the WARC conferences, in Congress and at the FCC headquarters - was worth a good donation.

By the way, our 200 call didn't end with Field Day. The bicentennial call sign (W200RKRC) was used throughout the final week of June as a Special Event, with special QSL cards made up for the occasion. Many club members were needed for the QSL party to get them all sent out.

Another special event is being scheduled for the weekend of August 20th to celebrate the SVARC's 40th anniversary. Club records indicate that the first regular meetings were held in April of 1948, with incorporation by the Commonwealth of Virginia in 1949. A few of the original charter members are still active in the club, including George Ritter-W4UGX and Mike Collins - W4ACC. They are sometimes referred to affectionately as the "Old Guard."

So there it is. The summertime ham activities are in full swing in the Shenandoah Valley.

CU at the Hamfest.

Paul - NI3T

VIENNA WIRELESS SOCIETY - Continued

VWS ANNUAL PICNIC

The VWS annual picnic will be held at the Moormont Orchards picnic grounds, located near Culpeper, Virginia, beginning at 10:00 a.m. Saturday, 27 August 1988. VWS members will enjoy a country outing to a working orchard. Members should bring baskets and/or containers for the apples or pears which are available for picking.

Bill Mills - KC5PF/4

Rock Creek Amateur Radio Assn.



Two Meter Net: FM 144.65/145.25 Mondays 8:00 p.m.
RCARA Alumni Net: 7.23 MHz, Mondays 11:00 a.m.
RCARA LUNCHEON: Wednesdays, 11:15 a.m., Anchor Inn, Wheaton, MD
Meetings: 7:30 p.m. the third Friday of each month
at Vitro Laboratories.
Mailing Address: P.O. Box 1913, Silver Spring, MD 20902

Our Field Day was held at the Izaak Walton League Park off Snouffer School road. We operated 3A in Maryland under club call W3RCN. Estimated score of about 3000 points.

John Halweg - N3ETD headed the reception party for Governor Shaffer's proclamation of Amateur Radio Week for the State of Maryland. Other members of his party were Bob Henkel - NA3R, Jim McDonough - W3CY and Walt Ramsey-AK3B. President Carl Brandt - N3CFA drafted a message to our SM which was sent in CW by Homer Lotier - W3XR. I obtained some publicity. It was a club effort and a lot of thanks must go to our Field Day Chairman, Bernie Pettit-WB9BZL for the coordination of this effort. Mike Kahn - KA3GSV and Phil Hoey - N3API have the wrap-up duty of computerizing the contacts and filing the final report to ARRL.

Mike Salapka - KA3NXD and his wife held an overnight outing for Brownie Troop #1501 and gave them a demonstration of Amateur Radio. Mike used a 12 volt battery for power, a 20 foot wire

thrown into a tree, a MJF tuner, and a transceiver set up on 40 meters. He ran his station for 5 hours and made a number of QSO's. He worked several Canadian stations, including VE3OZY who had a similar station for his Boy Scout Troop #16 at Niagara Falls. The outcome of the field demonstration was several interested girls, parents and friends. Good show, Mike. Your follow-up may be fruitful.

The order for a new repeater was mailed 1 July. Support for this project has been very gratifying. It is really nice to know that the members support the club and its effort to promote Amateur Radio as a hobby and a service.

My thanks and those of the Executive Committee go to you who have supported this project. Nick Smith - W3FNU must be given credit for getting this project out of the talking stage and into the action state. Nick, we are over the half-way mark in the funding at this point in time. As you once said, "It can be done."

Walt - AK3B

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We will also be glad to send a sample copy to prospective subscribers and/or advertisers. Send us the names and addresses. Help us promote Auto-Call.

QCWA National Convention, 1988



JOIN YOUR FELLOW MEMBERS AT THE
1988 INTERNATIONAL QCWA CONVENTION
IN THE GREATER WASHINGTON, D C AREA, SEPTEMBER 23-25
A TRULY GREAT PLACE TO VISIT IN THE AUTUMN!

The 1988 QCWA Convention is to be hosted by the Vic Clark Chapter #91. The Hotel is in the Virginia Suburb of McLean. Transportation from Dulles and Washington National Airports is via "Washington Flyer" van or private taxi. There are scores of tours to interesting places available as well as many historical spots to visit. Cruise on the Potomac or visit any of ten Smithsonian Museums. There is too much to list. Write: The International Visitor Information

Service, 733 15th Street, NW, Suite 300, Washington, DC 20005 for their brochure which gives lots of general information. Then you may wish to follow up by inquiring about specific tours, landmarks, historical sites, etc. On the form below, please indicate if you would be interested in a special tour of the NASA Goddard Space Center immediately before or after the convention (Wednesday, September 21 or Sunday, September 25).

REGISTRATION FORM -- CUT ALONG DOTTED LINES PLEASE

Name	Call	XYL First Name
Address		
No. & Street	City	State Zip
QCWA Member	\$ 7.00	Amount
Member & XYL	\$ 8.00 for both	Amount
Additional Guests	\$ 4.00 each	How Many? Amount
Saturday buffet breakfast	\$ 12.00 each	How Many? Amount
Saturday Evening Banquet	\$ 22.00 each	How Many? Amount
(Tax & Tips included in above prices)		Total Amount Enclosed

Possible NASA Tour:

Wed _____ Sun _____

Not Interested

Make check payable to Vic Clark Chapter, QCWA, mail this form and check to
James M. Wilcox, K4JAP, 3442 Surrey Ln, Falls Church, VA 22042

Pick up your function tickets at the Registration Desk. Mailed only upon request with SASE

QCWA Convention Coordinator

Wesley Randles, W4COW

1988 QCWA Convention Chairman

Jack Kelleher, W4ZC

Convention Co-Chairman

Elmer Jones, K4EUX

Convention Secretary

James Wilcox, K4JAP

3442 Surrey Ln, Falls Church, VA 22042

Convention Treasurer

Jack Kingman, W4JT

Technical Program Chairman

Stuart Meyer, W2GHK

The Convention site, the McLean Hilton, offers rooms, single or double occupancy for \$59.00 plus taxes, from September 21 - 25, 1988. If you are interested in the more expensive "Towers" accommodations, inquire about rates, etc., of the Hotel via phone or letter. Cut out the hotel registration form at the right. Be sure to get it to the hotel by not later than September 2. Also, at least one days room rent (check or credit card) must accompany the registration form.

MAIL TO:

The McLean Hilton (Reservations)
7920 Jones Branch Drive
McLean, VA 22102

Be sure to mention "QCWA Convention" in any inquiry

Hotel Phone is 703 847 5000

Hotel will send acknowledgement and a map

ROOM RESERVATION CARD

Name		
Company Name		
Address		Telephone
City	State	Zip Code
Arrival Date		Time
Departure Date		Time
Credit Card #		Expiration:
<input type="checkbox"/> Amex <input type="checkbox"/> Visa/MasterCard <input type="checkbox"/> Diners/Carte Blanche		

Rooms will be held until 6PM unless guaranteed with an accepted credit card. Check-in time is 2PM. Check-out time is 12NOON. Please circle accommodation requested.

QUARTER CENTURY WIRELESS ASSN.
September 21 - 25, 1988

Please check desired room type:

Single-\$59 Double-\$59

CUT-OFF DATE: September 2, 1988

If a range of rates is offered, and rate requested is not available, the next available rate will be assigned. Room charges are subject to Virginia State and Fairfax County taxes (currently 6.5%).

Reservation requests should be received two weeks prior to arrival date to insure availability.

The *Towers* is a private floor consisting of distinctive guest rooms and suites, featuring private lounge, concierge staff, and numerous special amenities.

Single: Double: Suites:

MADRAS

The Maryland Apple Dumpling Radio Amateur Society, Inc.

Meetings: 2nd and 4th Wednesday of the Month - 7:30 PM
At the WKYS conference room, 4001 Nebraska Ave., N.W.
Repeater: 144.85 / 145.45 MHz

MADRAS HAPPENINGS

MADRAS members had a wonderful time participating in Field Day. A lot of hard work by the members and a superlative effort resulting in a great improvement over last year's score, without any decrease in enjoyment. The participants were able to accumulate approximately 9000 points (class 3A). Eight wire antennas and one TA-33 beam were used for the event. It was fortunate that Warren - NM3U was a participant, otherwise he would not have had the antenna for home operation! Thanks Warren, for the use of your DXCC country-collector. Archery was provided by Renee - KC3NG. Renee, have your fingers returned to normal yet? Maybe an arbalest should be on your Christmas "wish list".

Operators were:

Eric - K3NA, Toni - KN3T,
Warren - NM3U, Charles - WB3GYE,
Renee - KC3NG, Rick - WA1SPT,
Jon - KA3OVK, Kevin - KA2EYP,
Matt - KB5BGU (Novice/ Tech Op),
Cid - KA3THL (newly licensed Novice Op), Arron - N3FBN, Scott - W3YTW,

Bill - KA3EYE (Novice/ Tech/ Packett Op) and Ed - KC4FYA.

Special functions were provided by: Laquetta - KK4WQ, post Field Day log reconciliation. Ron - W3GIS, pre-Field Day organization, the club regrets that you were unable to attend this year. Bob - N3FTU, extra point management. Alison - N3EWE, antenna setup.

Club member Al - K3KMO operated mobile and achieved possibly the highest point standing in the 1C class. Fantastic effort Al, congratulations from your friends and fellow club members.

The members thank KN3T and K3NA for the use of their tree laden site, their generous hospitality and the use of the well known call sign - K3NA. The members especially appreciate the intense hands-on contest training provided by Eric - K3NA.

Anthony L. Davis, N4SAS

JOSEPH HENRY - INVENTOR

Joseph Henry, the American physicist for whom the standard unit of inductance is named, is famous for his work with electro magnetism. But did you know that he was the first director of the Smithsonian Institution here in Washington? He supervised meteorological research there and promoted the systematic reporting and scientific prediction of weather.

Henry was born in 1797 and received only a rudimentary education on the primary and secondary levels, but that didn't stop him from reading avidly anything and everything that fell into his hands. One of the science books he read, at age 16, sparked his interest in scientific research and started him on his way to many discoveries and inventions. He died in 1878 in Washington, D.C. at the age of 81.

(Information from story by Grace Ballentine
Central Arkansas Radio Emergency Net Newsletter.)

New Computer Technology

"Laser pantography" appears to be a very promising means of making highly integrated supercomputers. This process uses a computer-steered laser beam to create complex circuits on a silicon wafer by using the heat of the laser to directly deposit or remove material. It is believed it will be possible to "wire together" all the circuits required for a supercomputer on a single, six-inch silicon wafer. This will mean a smaller package, lighter in weight, more reliable and more resistant to dangerous environments and working much faster than the present, conventional computers.

Recent technology had reached a level of development that makes it possible to build supercomputers with as few as 100 commercially available, extremely sophisticated ICs. The new system expects to do it on one! Lawrence Livermore National Laboratory has been working on "laser pantography" for the last several years and it is hoped the new ICs will be commercially available as early as 1991.

The simpler and less labor-intensive fabrication of these new ICs should markedly reduce the time and cost required to go from circuit design and testing to computer production. Computers could be assembled within a few days, as opposed to the weeks it now takes the most efficient manufacturers and it should be economically feasible to customize supercomputers for specific applications, even if only a few are needed.

Laser pantography is a "packaging technology" that is suitable to any kind of supercomputer architecture. It has been designed for a high degree of automation and offers the potential of providing major production advances.

At the present time, American supercomputer companies do little of their own manufacturing; instead, they assemble components made by other vendors. Laser pantography could well give American manufactures the edge they need in the touch competition facing the industry.

(Information from Lawrence Livermore National Laboratory "The Quarterly")

Anne Arundel Radio Club

Meetings: 1st and 3rd Thursdays at 8:00 p.m.
Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near Annapolis.
Address: P.O. Box 308, Davidsonville, MD 21035
Information: Margaret (Holly) Bevan (301) 923-0229

This year a Fair will replace the Bluegrass Festival as the main money-making event for the Davisonville Family Recreation Center). The Fair will be held Saturday, August 6 and will require participation of at least twenty AARC members. In addition to the operation of the PA system and furnishing the necessary communications, AARC will operate our own food booth and will conduct demonstrations of HFing and traffic handling (packet). Coordinator Bob Long - N3FUW is looking for helpers.

Field Day Coordinator, Fred Plitt - W3DCN reports a very successful Field Day effort in the 3A Battery class. A total of 34 AARC members obviously enjoyed taking part. A complete report will appear in the next Auto-Call.

A hearty group of AARC volunteers gathered at Sandy Point Park at 6:00 a.m. on Sunday, June 12, to provide communications for the 5th annual Chesapeake Bay Bridge Swim (for the benefit of the American Diabetes Association.) (Cont'd)

Woodbridge Wireless, Inc.

Meetings: 3rd Tuesday of each month, at 7:30 p.m.
Springwood Community Center, Corner of Springwood Drive and
Chauncer Court, just West of Woodbridge Airport.

Repeater: WB4FQR/R 147.84/24 and 449.9/444.9]

Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24
Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz
Saturdays at 9:00 p.m. - in new 10 Meter Novice band
28.460 MHz SSB

Mailing Address: P.O. Box 112, Woodbridge, VA 22194

One of the hazards of being a club reporter is writing about an event which hasn't happened yet, and is supposed to happen before the publishing date. Sooo, you become something of a prophet and write as if it had happened. I did that last month...about Field Day. Fortunately, I was right! Field Day was a great success. We came close to breaking our QSO record set in 1985. 20-meter phone scored close to 1250 QSO's alone!

This year the WWI Field Day was more like the emergency exercise it is usually reported to be. Two band captains had to pull out, so equipment was collected, set up and operators were shanghaied at the last minute for 80 phone and 20 CW. The club provided food for the "graveyard shift" and for Sunday morning breakfast. Saturday's dinner was a potluck affair, and we were pretty lucky! Lots of good food.

The club purchased a dual-band handie talky for a raffle prize. Virginia Micro Systems donated a C-64 too. EGE donated some windbreakers with the club logo on them for prizes and to be auctioned off, and donated a 220 handie for an early Sunday drawing. Only field

day participants could get tickets. Thanks to everybody for their help. It was quite an experience.

WWI has purchased a new controller to go with our Motorola repeater. The old one worked, most of the time, but could be fussy. It was sort of a Heinz 57...assembled over the years from various parts. Maintainers will like the fact that the new controller won't have to be wedged in the rack just right with a couple of folded matchbook covers! I'm not sure we'll miss the demanding autopatch (you had to hold your tongue just right) or the timer which shortened itself during the day depending on the temperature in the shack. 'Don't know if we'll need the dismembered Radio Shack Talking Time clock that someone spliced in a few years ago (and kerchunkers loved). New stuff kinda takes the romance out of hamming.

The next meeting's program (August) is to feature an official from the FCC. Here's hoping his busy schedule will permit him to come.

73 de WJ4M

ANNE ARUNDEL ARC Continued

Our volunteers furnished communication between the various rescue boats.

Last year there were 19 swimmers who dropped out. This year there were 153! While our plans called only for providing communications, the very large number of

drop-outs forced our members to support the rescue operations. Strong tides and cold water seemed to be responsible for the significant increase in the number who did not complete the swim.

Holly - N3BMB

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Estate sales for Widow's Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 8th of the month preceding publication.

FAR WIDOW'S ASSISTANCE PROGRAM

Estate of Joe Thomas - W3PIH

FOR SALE: Two towers approximately 24' high, one erected but with nothing mounted and one tied up on a fence. Also one vertical antenna for HF and one for 2 meters, both are erected. Located at 1405 Viers Mill Road, Rockville, Maryland. Please call Mrs. Joe Thomas (widow of W3PIH) on (301) 762-4057. (FAR)

FOR SALE:

FOR SALE: Fifty foot windmill tower, Mosley TA33- 40K, HAM-M rotator. Make offer and remove. Call George Willingmyre - K3SZZ (301) 421-1752

FOR SALE: The legendary COLLINS 51J-4, the best general coverage receiver ever made. Complete with 3 mechanical filters, all covers, original manual, high serial number. Near MINT condition - \$450. Call after 7:00 p.m. (703) 644-7307. Howard - W3HM, 7300 Langsford Ct. Springfield, Virginia 22153. (08)

FOR SALE: COLLINS 75A-4. tje best HAM receiver ever made. Complete with 3 mechanical filters, original manual. Near MINT conditon - \$400. Call after 7:00 p.m. (703) 644-7307. Howard - W3HM, 7300 Langsford Ct. Springfield, Virginia 22153. (08)

WANTED: Smooth surface paper rolls, 3" x 10", for T.I. Silent 700 series terminal; of you need some also, we can get a whole case and divide it up. G. Rose, KB4QGJ; 524 N. Quaker Lane, Alexandria, VA 22304 (703) 370-1880. (08)

FAR WIDOW'S ASSISTANCE PROGRAM

Estate of Sam Newman - W3NH

* HY-Gain 204BA 4 element, 20 meter beam antenna with Beta Match (never used - still in sealed carton - \$250
* Heath HM102 SWR/Power meter - \$30
* Micronta VTVM - \$25
* Sears Power CB mike (2) @ \$5
* Straight Key - \$5
* Speakers - 6" in cabinet (2) @ \$10
* Ear phones - (2) @ \$5
* Turner SSB+2 desk mike - \$10
Phone Bob Henkel - NA3R at (301) 649-4494. (FAR)

WANTED: 2 Meter HT, good condition. Cash or trade for EIMAC transmitter and receiver. Bob - N3FRT (202) 879-6774 daytime. (11)

WANTED: McElroy bugs, hand keys and Vibroplex zephyr bug or any old or unusual bug. Help appreciated in locating such. "Smiley" White-WB4EDB, POB 5150 Fredericksburg, VA 22405 Phone (703) 373-0996 (12)

Need Antenna or tower work done? Call L. Chertok - W3GRF. (301) 297-4888. (C12)

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FOR SALE: KENWOOD 930 TRANSCEIVER. Mint condition, in original packing. Used less than 100 hours. Complete with built-in Auto-tuner, MC-60 microphone, SP-930 external speaker and manual - \$1200. If you are seriously interested, call Bill-N3DBN, Frederick, Maryland. (08)

FOR SALE: Telex - HyGain HDR-300 Digital Rotator, 25 sq. ft. rating-\$300. Tom Dorset - WB4J Home phone (703) 525-1488 or (work) 366-0672 Alexandria, VA (08)

WANTED: Circuit diagram for AMECO PCL-P preamp. Jack Geist -N3BEK, 2205 Henderson Avenue, Silver Spring, MD 20902 (301) 942-5949 (8)

ANTIQUE RADIO BUFFS!

Become a part of one of the country's fastest-growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For sample newsletter, write Joe Koester, 249 Spring Gap South, Laurel, Md 20707. (301) 725-4229. (S)

WORLD RADIO, Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$12 per year (\$22 overseas). Get the latest on how your fellow amateurs use their hobby to help other. Regular features are Aerials, Bob' Corner, Contest & Hamfest announcements, Digital Bus, DX World, MARS, Mobile, FCC Highlights, New Products, Propagation, QCWA, QRP, Six Shots!, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to WORLD RADIO, 1779 Tribute Road, Ste. L, Sacramento, CA 95815.

FOR SALE: Hallicrafters S-38-D. Good condition - \$40.

- * National NC-125. Mint Cond - \$95
- * Hallicrafters SX-110. Mint - \$75
- * Lafayette KT-340. Mint Cond - \$60
- * Also Zenith (black dial) large walnut console AM-SW radio with phonograph. Beautiful collector's item - \$125.. Call Claude Gnocchi (301) 845-6120 Frederick, MD (08)

FOR SALE: ICOM 271H 100 Watt 2-meter multi-mode transceiver, near mint condition, used little. Includes hand mic and manual - \$675/offer. Allan (703) 241-1331 evenings. Arlington, VA (08)

FOR SALE: COLLINS Station. 75S-3 Receiver, 32S-1 transmitter, with power supply and control console-\$425. All above in good condition. C.H. Campen - W3LVC (301) 796-1070 Elkridge, MD. (08)

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FOR SALE: HyGain Explorer antenna. Brand new. Antenna tuner. Call (202) 955-3815 B (703) 323-6932 Home After 8:00 p.m. (08)

FOR SALE: 40' manual crank-up Triex tower; Mosley TA-33 3-element beam; C.D.R. Rotor; Coax; guy wires - \$550. Phone (703) 430-6023 Sterling, VA (8)

MEDICAL AMATEUR RADIO COUNCIL, LTD. publishes a fine MARCO Newsletter. For details, write MARCO, Box 73S, Acme, PA 15610 (S)

AMATEUR RADIO NEWS SERVICE is an organization of editors and publishers of amateur radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information write to Lee Knirko, W9MOL, 833 Park Plaine, Park Ridge, IL 60068 (S)

FOR SALE: Johnson Viking Valient, works perfectly, excellent appearance, retubed - \$150. Hammarlund HQ-100A with speakers, works perfectly, excellent appearance - \$100. Heathkit AT-1 transmitter, works fine, fair-to-good appearance \$30. Hammarlund HQ-170, works well, fair-to-good appearance - \$75. Offers considered. Terry (703) 759-9436 evenings. Arlington, VA (08)

FOR SALE: 465 feet (more or less) of slightly used RG-8U cable - \$24. W4NM. Phone (703) 356-3723 (08)

FOR SALE: COLLINS KWS-1 and 75A4, 1 KW 80 - 10 meter SSB/CW station, 3 mechanical filters in 75A4, good working order, clean, manuals, recently overhauled by K1MAN - \$800. SIGNAL ONE CX-7B SSB/CW transceiver, 160 - 10 meters, clean, working, manuals and Signal One notes, deluxe CW filter installed, can work 30 mtrs with addition of crystal - \$500. NATIONAL NC-57 and ALLIED RADIO general coverage receivers, with manuals, not working - \$30 each, ROBYN SSB CB transceiver, converted to 10 meters, working - \$80. Cal Cotner - K4JSI, Arlington, VA. Phone Home: (703) 534-9193, Work (202) 863-6190 (08)

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For your benefit in determining spacing, type 80 (12 pitch) characters per line and 58 lines per page - including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper. Any copy can be reduced or enlarged as desired.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portions of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Shack Sales will NOT be accepted over the telephone. Remittance must accompany each ad. Full address must be provided for our reference but need not be published. Deadline for copy is the 8th of the month preceding the publication date.

Each ad must include the call sign or the full name of the advertiser. If the full address is not included in the ad, we prefer to indicate the city along with the telephone numbers so that readers will know whether a long-distance charge is involved. The entire telephone number - including city - counts as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number, or group of letters/numbers is counted as one word.

See additional information in next column. If you have other questions, phone Ethel - K4LMB at McLean, Virginia (703) 536-8469 - at any reasonable hour.

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Auto-Call Advertising

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Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

DISPLAY ADS are charged according to size and duration of run. Rates per issue:

Page	Col. inch	1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
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1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
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AUGUST 1988

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Dept of State	2 Antietam PG Wireless	3 BARC MARC	4 Anne Arundel	5 Mobileers Shenandoah	6 <u>Exams</u> College Pk, M Hampton Rds Seaford, De
7 SHENANDOAH HAMFEST <u>Exams</u> Hamfest	8 PVRC	9 APL FARC	10 Laurel (Inf) Pentagon FOUNDATION	11 No Virginia Mt Vernon	12 Alexandria SMARC Vienna	13 <u>Exams</u> Frederick, MD
14	15 Ole VA Hams	16 Antietam Arlington Woodbridge	17 BARC MARC Goddard	18 Anne Arundel <u>Exams</u> Towson, MD	19 RCARA Shenandoah	20 Cap City Tri County ARRL Portland, OR
21 ARRL CONVENTION Portland, OR	22	23	24 Laurel	25	26 Alexandria Vienna	27 VWS Picnic NCDXA/PVRC Fowlfest <u>Exams</u> Laurel
28 Wash Adventists	29	30	31	NOTES : NCDXA every Sunday 8:30 147.420		

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